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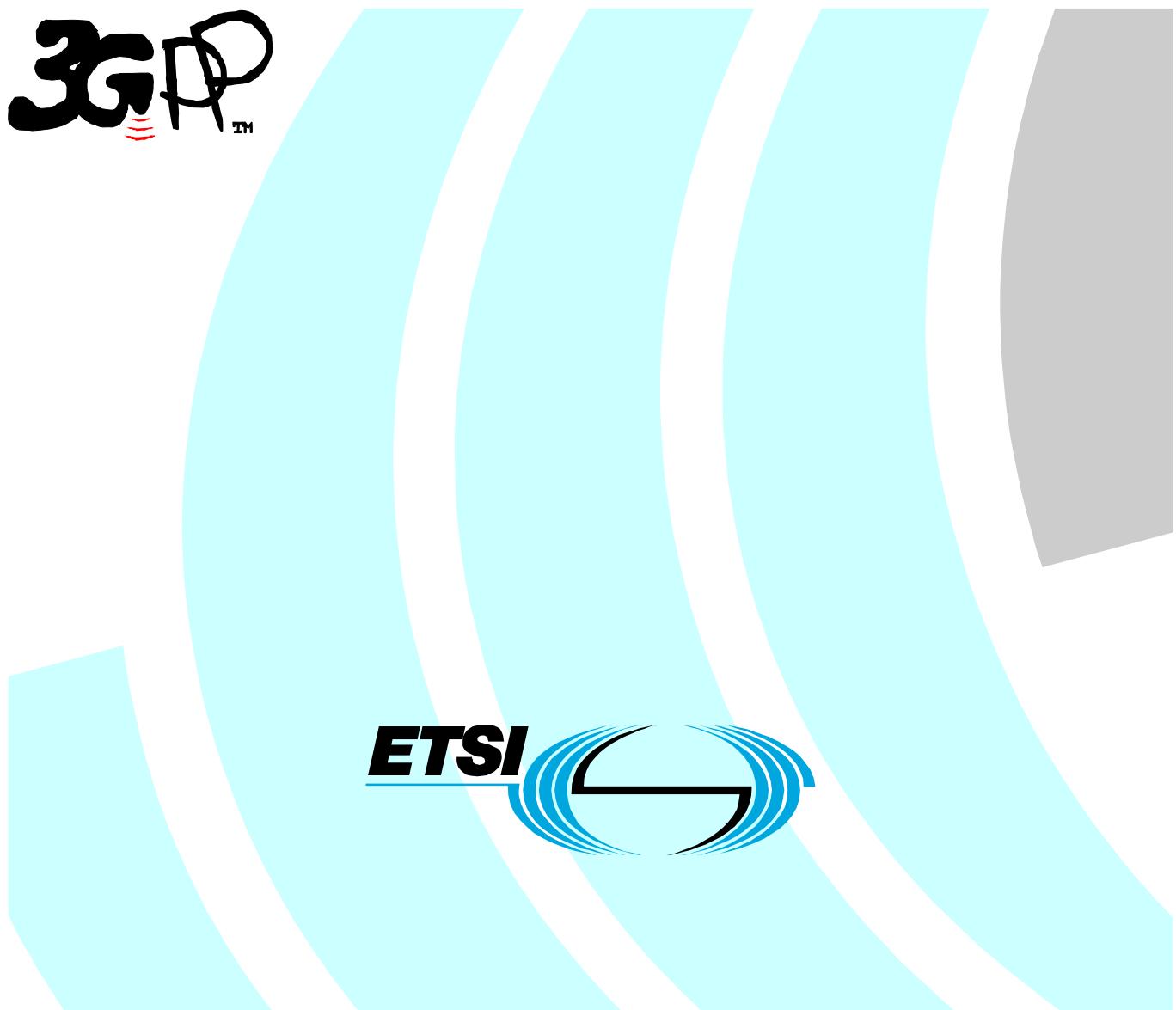
Technical Specification

Universal Mobile Telecommunications System (UMTS); Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124 version 6.2.1 Release 6)

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Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

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Contents

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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x the first digit:

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y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

1   Scope

The present document describes the technical characteristics and methods of test for testing the USIM Application Toolkit implemented in 3rd Generation Mobile Equipments (ME) or Mobile Station (MS) for the 3G and 2G digital cellular communications systems within the 3GPP digital cellular telecommunications system, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [19] and ETS 300 406 [20].

The present document is valid for ME implemented according to 3GPP Release 99, or Release 4, or Release 5 or Release 6

The present document covers the minimum characteristics considered necessary in order to provide sufficient performance for mobile equipment and to prevent interference to other services or to other users, and to the PLMNs.

It does not necessarily include all the characteristics which may be required by a user or subscriber, nor does it necessarily represent the optimum performance achievable.

The present document is part of the 3GPP-series of technical specifications. The present document neither replaces any of the other 3GPP technical specifications or 3GPP related ETSs or ENs, nor is it created to provide full understanding of (or parts of) the UMTS. The present document lists the requirements, and provides the methods of test for testing the USIM Application Toolkit implemented in a ME for conformance to the 3GPP standard.

For a full description of the system, reference should be made to all the 3GPP technical specifications or 3GPP related ETSIs, ETSs or ENs. Clause 2 provides a complete list of the 3GPP technical specifications, 3GPP related ETSIs, ETSs, ENs, and ETRs, on which this conformance test specifications is based.

If there is a difference between this present conformance document, and any other 3GPP technical specification or 3GPP related ETSI, ETS, EN, or 3GPP TS, then the other 3GPP technical specification or 3GPP related ETSI, ETS, EN or 3GPP TS shall prevail.

Within the context of this document, the term "terminal" used in ETSI TS 102 223 [16] refers to the Mobile Equipment (ME).

Within the context of this document, the term "UICC" used in ETSI TS 102 223 [16] refers to the USIM card.

Within the context of this document, the term "NAA" used in ETSI TS 102 223 [16] refers to the USIM application.

2   References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the relevant Release*.

- References to 3GPP Technical Specifications and Technical Reports throughout the present document shall be interpreted according to the Release shown in the formal reference in this clause, based upon the Release of the implementation under test.

[1]   3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2]   3GPP TS 22.001: "Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".

[3]   3GPP TS 22.003 "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".

[4]   3GPP TS 22.004: "General on supplementary services".

[5]   ETSI TS 101 220: 'ETSI numbering system for telecommunication application providers'

[6]   3GPP TS 21.904: 'UE capability requirements'

[7]   3GPP TS 23.038: "Alphabets and language-specific information".

[8]   3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[9]   3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".

[10]   3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3" (see note 1).

[11]   3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) Support on mobile radio interface".

[12]   3GPP TS 34.108: 'Common test environments for User Equipment (UE) conformance testing".

[13]   ETSI TS 102 221: 'UICC-Terminal interface; Physical and logical characteristics'.

[14]   3GPP TS 31.102 : "Characteristics of the USIM application".

[15]   3GPP TS 31.111 : 'USIM Application Toolkit (USAT)'

[16]   ETSI TS 102 223: "Smart cards; Card Application Toolkit (CAT)"

[17a]   ISO/IEC 10646-1: "Information technology - Universal Multiple Octet Coded Character Set (UCS) - Part 1: Architecture and Basic Multilingual Plane".

[17b]   ISO/IEC 10646-2: "Information technology - Universal Multiple Octet Coded Character Set (UCS) - Part 2: Supplementary Planes".

[18]   3GPP TS 27.007 : "AT command set for 3G User Equipment (UE)".

[19]   ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[20]   ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[21]   3GPP TS 31.121: 'UICC-terminal interface; USIM application test specification'

[22]   3GPP TS 22.101: 'Service Aspects; Service principles'

[23]   3GPP TS 51.010-1: 'Mobile Station (MS) conformance specification; Part 1: Conformance specification'

[24]   ISO/IEC 7816-3: "Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 3: Electronic signals and transmission protocols".

[25]   TIA/IS-820-A: "Removable User Identity Module (R-UIM) for TIA/EIA Spread Spectrum System".

3   Definitions and abbreviations

3.1   Mobile station definition and configurations

The mobile station definition and configurations specified in 3GPP TS 34.108 [12] shall apply, unless otherwise specified in the present clause.

3.2 Applicability

3.2.1 Applicability of the present document

The present specification applies to a terminal equipment that supports the USIM Application Toolkit optional feature.

3.2.2 Applicability of the individual tests

Table B.1 lists the optional features for which the supplier of the implementation states the support.

3.2.3 Applicability to terminal equipment

The applicability to terminal equipment specified in 3GPP TS 34.108 [12] shall apply, unless otherwise specified in the present clause.

Within the context of this document, the term "USS" refers to the 'UMTS System Simulator' when accessing a UTRAN and to the 'System Simulator' when accessing a GERAN.

See table A.1.

3.2.4 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 34.108 [12], , apply.

3.2.4.1 Format of the table of optional features

Option: The optional feature supported or not by the implementation.

Support Answer notation: The support columns shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [19], are used for the support column in the tables below.

Y or y	supported by the implementation
N or n	not supported by the implementation
N/A, n/a or -	no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status)

Mnemonic column: The Mnemonic column contains mnemonic identifiers for each item.

3.2.4.2 Format of the applicability table

The applicability of every test in table B.1 is formally expressed by the use of Boolean expression defined in the following clause.

The columns in table B.1 have the following meaning:

- In the "Item" column a local entry number for the requirement in the table is given.

- In the "Description" column a short non-exhaustive description of the requirement is found.

- The "Release" column gives the Release applicable and onwards, for the item in the "Description" column

- The "Test Sequence(s)" column gives a reference to the test sequence number(s) detailed in the present document and required to validate the implementation of the corresponding item in the "Description" column.

- For a given Release, the corresponding "Rel X ME" column lists the tests required for a Mobile Station to be declared compliant to this Release.

- The "Support" column is blank in the proforma, and shall be completed by the manufacturer in respect of each particular requirement to indicate the choices, which have been made in the implementation.

- The "Terminal Profile" column gives a reference to the corresponding bit that needs to be present in the Terminal Profile.

3.2.4.3   Status and notations

"Release X ME" columns show the status of the entries as follows:

The following notations, defined in ISO/IEC 9646-7 [19], are used for the status column:

M	mandatory - the capability is required to be supported.
O	optional - the capability may be supported or not.
N/A	not applicable - in the given context, it is impossible to use the capability.
X	prohibited (excluded) - there is a requirement not to use this capability in the given context.
O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.
Ci	conditional - the requirement on the capability ("M", "O", "X" or "N/A") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." shall be used to avoid ambiguities.

References to items: For each possible item answer (answer in the support column) there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE: A.1/4 is the reference to the answer of item 4 in table A.1.

3.3   Table of optional features

Support of USIM Application Toolkit is optional for Mobile Equipment. However, if an ME states conformance with a specific 3GPP release, it is mandatory for the ME to support all functions of that release, as stated in table A.1.

The support of letter classes, which specify mainly ME hardware dependent features, is optional for the ME and may supplement the USIM Application Toolkit functionality described in the present document. If an ME states conformance to a letter class, it is mandatory to support all functions within the respective letter class.

The supplier of the implementation shall state the support of possible options in table A.1.

Table A.1: Options

Item	Option	Status	Support	Mnemonic
1	Capability Configuration parameter	M		O_Cap_Conf
2	Sustained text	M		O_sust_text
3	UCS2 coding scheme for Entry	O		O_Ucs2_Entry
4	Extended Text String	M		O_Ext_Str
5	Help information	O		O_Help
6	Icons	O		O_Icons
7	Class A: Dual Slot	O		O_Dual_Slot
8	Detachable reader	O		O_Detach_Rdr
9	Class B: RUN AT	O		O_Run_At
10	Class C: LAUNCH BROWSER	O		O_LB
11	Class D: Soft keys	O		O_Soft_key
12	Class E: B.I.P related to CSD	O		O_BIP_CSD
13	Screen sizing parameters	O		O_Scr_Siz
14	Screen Resizing	O		O_Scr_Resiz
15	UCS2 coding scheme for Display	O		O_Ucs2_Disp
16	Mobile supporting GPRS	O		O_GPRS
17	Mobile supporting UDP	O		O_UDP
18	Mobile supporting TCP	O		O_TCP
19	Redial in Set Up Call	O		O_Redial
20	Mobile decision to respond with "No response from user" in finite time	O		O_D_NoResp
21	Class E: B.I.P related to GPRS	O		O_BIP_GPRS
22	Mobile supporting Called Party Subaddress	O		O_CP_Subaddr
23	Immediate response	O		O_Imm_Resp
24	Variable Timeout	O		O_Duration
25	Text Attribute	O		O_Text_Attrib
26	Class F: B.I.P related to local bearer	O		O_BIP_Local
27	BlueTooth Support	O		O_BT
28	IrDA Support	O		O_IrDA
29	RS232 Support	O		O_RS232
30	USB Support	O		O_USB
31	WML Browser Support	O		O_WML
32	XHTML Browser Support	O		O_XHTML
33	HTML Browser Support	O		O_HTML
34	CHTML Browser Support	O		O_CHTML
35	Class G: Battery Data	O		O_Batt
36	Class H: Multimedia Call Support	O		O_Xmedia_Call
37	Class I: Frame support	O		O_Frames
38	Class J: Multimedia Messaging Support	O		O_MMS
39	ME requesting for user confirmation before sending the Envelope Call Control command	O		O_UC_Before_EnvCC
40	ME requesting for user confirmation after sending the Envelope Call Control command	O		O_UC_After_EnvCC
41	UCS2 in Cyrillic	O		O_UCS2_Cyrillic
42	UCS2 in Chinese	O		O_UCS2_Chinese
43	UCS2 in Katakana	O		O_UCS2_Katakana
44	Mobile supporting **B**arred **D**ialling Numbers	O		O_BDN
45	Mobile supporting Fixed dialling numbers	O		O_FDN

3.4 Applicability table

Table B.1: Applicability of tests

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
1	**PROFILE DOWNLOAD**	R99	**1**	**M**	M	M	M	E.1/1	
2	**Contents of the TERMINAL PROFILE command 27.22.2**	R99		M	M	M	M	E.1/1	
3	**Servicing of Proactive UICCCommands**	R99		M	M	M	M		
4	**DISPLAY TEXT**								
	Unpacked	R99	1.1	M	M	M	M	E.1/17	
	Screen busy	R99	1.2	M	M	M	M	E.1/17	
	high priority	R99	1.3	M	M	M	M	E.1/17	
	Packed	R99	1.4	M	M	M	M	E.1/17	
	clear after delay	R99	1.5	M	M	M	M	E.1/17	
	long text up to 160 bytes	R99	1.6	M	M	M	M	E.1/17	
	Backwards move in USIM session	R99	1.7	M	M	M	M	E.1/17	
	Session terminated by user	R99	1.8	M	M	M	M	E.1/17	
	Command not understood by ME	R99	1.9	M	M	M	M	E.1/17	
	no response from user	R99	2.1	M	M	M	M	E.1/17	
	Extension Text	R99	3.1	M	M	M	M	E.1/17 AND E.1/16	
	sustained text	R99	4.1, 4.2, 4.3, 4.4	M	M	M	M	E.1/17 AND E.1/65	
	Icons	R99	5.1, 5.2, 5.3	C108	C108	C108	C108	E.1/17	
	UCS2 display in Cyrillic	R99	6.1	C118	C118	C118	C118	E.1/17 AND E.1/15	
	Variable Timeout	Rel-4	7.1	C126	C126	C126	C126	E.1/17 AND E.1/137	
	Text attribute	Rel-5	8.1 to 8.10			C127	C127	E.1/17	
	UCS2 display in Chinese	R99	9.1			C143	C143	E.1/17	
	UCS2 display in Katakana	R99	10.1			C145	C145	E.1/17	
	Frames	Rel-6	TBD				C133	E.1/17 AND E.1/177 AND E.1/178	
5	**GET INKEY**								
	prompt unpacked	R99	1.1	M	M	M	M	E.1/18	
	prompt packed	R99	1.2	M	M	M	M	E.1/18	
	digits only	R99	1.1	M	M	M	M	E.1/18	
	Backwards move in UICC session	R99	1.3	M	M	M	M	E.1/18	
	Session terminated by user	R99	1.4	M	M	M	M	E.1/18	
	SMS alphabet	R99	1.5	M	M	M	M	E.1/18	
	Long text up to 160 bytes	R99	1.6	M	M	M	M	E.1/18	
	no response from user	R99	2.1	M	M	M	M	E.1/18	
	UCS2 display in Cyrillic	R99	3.1	C118	C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 display, Long text up to 70 chars in Cyrillic	R99	3.2	C118	C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 entry in Cyrillic	R99	4.1	C105	C105	C105	C105	E.1/18 AND E.1/14	
	"Yes/No" response	R99	5.1	M	M	M	M	E.1/18 AND E.1/60	
	Icons	R99	6.1, 6.2, 6.3, 6.4	C108	C108	C108	C108	E.1/18	
	Help information	R99	7.1	C107	C107	C107	C107	E.1/18	
	Variable Timeout	Rel-4	8.1	C126	C126	C126	C126	E.1/18 AND E.1/140	
	Text attribute	Rel-5	9.1 to 9.10			C127	C127	E.1/18	
	UCS2 display in Chinese	R99	10.1			C143	C143	E.1/18 AND E.1/15	
	UCS2 display in Chinese, Long text up to 70 chars	R99	10.2			C143	C143	E.1/18 AND E.1/15	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	UCS2 entry in Chinese	R99	11.1			C142	C142	E.1/18 AND E.1/14	
	UCS2 display in Katakana	R99	12.1			C145	C145	E.1/18 AND E.1/15	
	UCS2 display in Katakana, Long text up to 70 chars	R99	12.2			C145	C145	E.1/18 AND E.1/15	
	UCS2 entry in Katakana	R99	13.1			C144	C144	E.1/18 AND E.1/14	
	Frames	Rel-6	TBD				C133	E.1/18 AND E.1/177 AND E.1/178	
6	**GET INPUT**								
	input unpacked	R99	1.1	M	M	M	M	E.1/19	
	input packed	R99	1.2	M	M	M	M	E.1/19	
	digits only	R99	1.1	M	M	M	M	E.1/19	
	SMS alphabet	R99	1.3	M	M	M	M	E.1/19	
	hidden input	R99	1.4	M	M	M	M	E.1/19	
	min / max acceptable length	R99	1.5, 1.9	M	M	M	M	E.1/19	
	Backwards move in UICC session	R99	1.6	M	M	M	M	E.1/19	
	Session terminated by user	R99	1.7	M	M	M	M	E.1/19	
	Prompt text up to 160 bytes	R99	1.8	M	M	M	M	E.1/19	
	SMS default alphabet, ME to echo text, packing not required	R99	1.9	M	M	M	M	E.1/19	
	Null length for the text string	R99	1.10	M	M	M	M	E.1/19	
	no response from user	R99	2.1	M	M	M	M	E.1/19	
	UCS2 display in Cyrillic	R99	3.1, 3.2	C118	C118	C118	C118	E.1/19 AND E.1/15	
	UCS2 entry in Cyrillic	R99	4.1, 4.2	C105	C105	C105	C105	E.1/19 AND E.1/14	
	default text for the input	R99	5.1, 5.2	M	M	M	M	E.1/19	
	icons	R99	6.1, 6.2, 6.3, 6.4	C108	C108	C108	C108	E.1/19	
	help information	R99	7.1	C107	C107	C107	C107	E.1/19	
	Text attribute	Rel-5	8.1 to 8.10			C127	C127	E.1/19	
	UCS2 display in Chinese	R99	9.1, 9.2			C143	C143	E.1/19 AND E.1/15	
	UCS2 entry in Chinese	R99	10.1, 10.2			C142	C142	E.1/19 AND E.1/14	
	UCS2 display in Katakana	R99	11.1, 11.2			C145	C145	E.1/19 AND E.1/15	
	UCS2 entry in Katakana	R99	12.1, 12.2			C144	C144	E.1/19 AND E.1/14	
	Frames	Rel-6	TBD				C133	E.1/19 AND E.1/177 AND E.1/178	
7	**MORE TIME**	R99	1.1	M	M	M	M	E.1/20	
8	**PLAY TONE**								
	play all tones	R99	1.1	M	M	M	M	E.1/21	
	display alpha	R99	1.1	M	M	M	M	E.1/21	
	user termination	R99	1.1	M	M	M	M	E.1/21	
	superimpose	R99	1.1	M	M	M	M	E.1/21	
	UCS2 display in Cyrillic	R99	2.1	C118	C118	C118	C118	E.1/21 AND E.1/15	
	icons	R99	3.1, 3.2,3.3, 3.4	C108	C108	C108	C108	E.1/21	
	Text attribute	Rel-5	4.1 to 4.10			C127	C127	E.1/21	
	UCS2 display in Chinese	R99	5.1			C143	C143	E.1/21 AND E.1/15	
	UCS2 display in Katakana	R99	6.1			C145	C145	E.1/21 AND E.1/15	
	Frames	Rel-6	TBD				C133	E.1/21 AND E.1/177 AND E.1/178	
	Themed and Melody tones	Rel-6	TBD				C138	E.1/21	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
9	**POLL INTERVAL**								
	duration	R99	1.1	M	M	M	M	E.1/22	
10	**REFRESH**								
	USIM initialization, enabling FDN mode	R99	1.1	M	M	M	M	E.1/24 AND C146	
	file change notification of FDN file	R99	1.2	M	M	M	M	E.1/24 AND C146	
	USIM initialization and file change notification of PLMN	R99	1.3	M	M	M	M	E.1/24	
	USIM initialization and full file change notification, enabling FDN mode	R99	1.4	M	M	M	M	E.1/24 AND C146	
	UICC reset	R99	1.5	M	M	M	M	E.1/24	
	USIM Initialization after SMS-PP data download	R99	1.6	M	M	M	M	E.1/24 AND C146	
	UICC Reset for IMSI Changing procedure	R99	2.1	M	M	M	M	E.1/24	
	USIM Application Reset for IMSI Changing procedure	R99	2.2	M	M	M	M	E.1/24	
	3G Session Reset for IMSI Changing procedure	R99	2.3	M	M	M	M	E.1/24	
11	**SET UP MENU**								
	Set up, menu selection, replace and remove menu	R99	1.1	M	M	M	M	E.1/30 AND E.1/4	
	Large menu	R99	1.2	M	M	M	M	E.1/30 AND E.1/4	
	help information	R99	2.1	C107	C107	C107	C107	E.1/30 AND E.1/4	
	next action indicator	R99	3.1	M	M	M	M	E.1/30	
	icons	R99	4.1, 4.2	C108	C108	C108	C108	E.1/30	
	soft key access	R99	5.1	C112	C112	C112	C112	E.1/30 AND E.1/74	
	Text attribute	Rel-5	6.1 to 6.10			C127	C127	E.1/30 AND E.1/124	
	UCS2 display in Cyrillic	R99	7.1			C118	C118	E.1/39 AND E.1/15	
	UCS2 display in Chinese	R99	8.1			C143	C143	E.1/39 AND E.1/15	
	UCS2 display in Katakana	R99	9.1			C145	C145	E.1/39 AND E.1/15	
12	**SELECT ITEM**								
	Mandatory features	R99	1.1	M	M	M	M	E.1/25	
	Large menu	R99	1.2, 1.3, 1.5,1.6	M	M	M	M	E.1/25	
	Backwards move	R99	1.4	M	M	M	M	E.1/25	
	user termination	R99	1.5	M	M	M	M	E.1/25	
	no response from user	R99	8.1	C120	C120	C120	C120	E.1/25	
	next action indicator	R99	2.1	M	M	M	M	E.1/25	
	default selected item	R99	3.1	M	M	M	M	E.1/25	
	help information	R99	4.1	C107	C107	C107	C107	E 1/25	
	icons	R99	5.1, 5.2	C108	C108	C108	C108	E.1/25	
	Presentation style	R99	6.1, 6.2	M	M	M	M	E.1/25	
	Soft keys	R99	7.1	C112	C112	C112	C112	E.1/25 AND E.1/73	
	No Response from user	R99	8.1	M	M	M	M	E.1/25	
	Text attribute	Rel-5	9.1 to 9.10			C127	C127	E.1/25 AND E.1/124	
	UCS2 display in Cyrillic	R99	10.1, 10.2, 10.3			C118	C118	E.1/39 AND E.1/15	
	UCS2 display in Chinese	R99	11.1			C143	C143	E.1/25 AND E.1/15	
	UCS2 display in Katakana	R99	12.1, 12.2, 12.3			C145	C145	E.1/25 AND E.1/15	
	Frames	Rel-6	TBD				C133	E.1/25 AND E.1/177 AND E.1/178	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
13	**SEND SMS**								
	Packing not required	R99	1.1, 1.3 1.5	M	M	M	M	E.1/26	
	Packing required	R99	1.2, 1.4	M	M	M	M	E.1/26	
	8 bit data	R99	1.1, 1.2	M	M	M	M	E.1/26	
	SMS default alphabet	R99	1.3, 1.4, 1.5	M	M	M	M	E.1/26	
	160 bytes length	R99	1.4, 1.5	M	M	M	M	E.1/26	
	Alpha identifier	R99	1.6, 1.7, 1.8	M	M	M	M	E.1/26	
	UCS2 SMS in Cyrillic	R99	2.1	C118	C118	C118	C118	E.1/26 AND E.1/15	
	icons	R99	3.1, 3.2	C108	C108	C108	C108	E.1/26	
	Text attribute	Rel-5	4.1 to 4.10			C127	C127	E.1/26 AND E.1/124	
	UCS2 display in Chinese	R99	5.1			C143	C143	E.1/26 AND E.1/15	
	UCS2 display in Katakana	R99	6.1			C145	C145	E.1/26 AND E.1/15	
	Frames	Rel-6	TBD				C133	E.1/26 AND E.1/177 AND E.1/178	
14	**SEND SS**								
	call forward unconditional, all bearers, successful	R99	1.1	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Return Error	R99	1.2	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Reject	R99	1.3	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, SS request size limit	R99	1.4	M	M	M	M	E.1/27	
	interrogate CLIR status, successful, alpha identifier limits	R99	1.5	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, null data alpha identifier	R99	1.6	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, icon support	R99	2.1, 2.2, 2.3, 2.4	C108	C108	C108	C108	E.1/27	
	UCS2 display in Cyrillic	R99	3.1	C118	C118	C118	C118	E.1/27 AND E.1/15	
	Text attribute	Rel-5	4.1 to 4.10			C127	C127	E.1/27 AND E.1/124	
	UCS2 display in Chinese	R99	5.1			C143	C143	E.1/27 AND E.1/15	
	UCS2 display in Katakana	R99	6.1			C145	C145	E.1/27 AND E.1/15	
15	**SEND USSD**								
	7-bit data, successful	R99	1.1	M	M	M	M	E.1/28	
	8-bit data, successful	R99	1.2	M	M	M	M	E.1/28	
	UCS2 data, successful	R99	1.3	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R99	1.4	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R99	1.5	M	M	M	M	E.1/28	
	256 octets, 7-bit data, successful, long alpha identifier	R99	1.6	M	M	M	M	E.1/28	
	7-bit data, successful, no alpha identifier	R99	1.7	M	M	M	M	E.1/28	
	7-bit data, successful, null length alpha identifier	R99	1.8	M	M	M	M	E.1/28	
	icons	R99	2.1, 2.2, 2.3, 2.4	C108	C108	C108	C108	E.1/28	
	UCS2 in Cyrillic	R99	3.1	C118	C118	C118	C118	E.1/28 AND E.1/15	
	Text attribute	Rel-5	4.1 to 4.10			C127	C127	E.1/28 AND E.1/124	
	UCS2 in Chinese	R99	5.1			C143	C143	E.1/28 AND E.1/15	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	UCS2 in Katakana	R99	6.1			C145	C145	E.1/28 AND E.1/15	
16	**SET UP CALL**								
	Call confirmed by the user and connected	R99	1.1	M	M	M	M	E.1/29	
	call rejected by the user	R99	1.2	M	M	M	M	E.1/29	
	redial	R99	1.3	C119	C119	C119	C119	E.1/29	
	putting all other calls on hold, ME busy	R99	1.4	M	M	M	M	E.1/29	
	disconnecting all other calls, ME busy	R99	1.5	M	M	M	M	E.1/29	
	only if not currently busy on another call, ME busy	R99	1.6	M	M	M	M	E.1/29	
	putting all other calls on hold, call hold is not allowed	R99	1.7	M	M	M	M	E.1/29	
	Capability configuration	R99	1.8	C101	C101	C101	C101	E.1/29	
	long dialling number string	R99	1.9	M	M	M	M	E.1/29	
	long first alpha identifier	R99	1.10	M	M	M	M	E.1/29	
	Called party subaddress	R99	1.11	C124	C124	C124	C124	E.1/29	
	maximum duration for the redial mechanism	R99	1.12	C119	C119	C119	C119	E.1/29	
	second alpha identifier	R99	2.1	M	M	M	M	E.1/29 AND E.1/63	
	icons	R99	3.1,3.2, 3.3, 3.4	C108	C108	C108	C108	E.1/29	
	Text attribute	Rel-5	4.1 to 4.10			C127	C127	E.1/29 AND E.1/124	
	UCS2 Display in Cyrillic	R99	5.1			C118	C118	E.1/29 AND E.1/15	
	UCS2 display in Chinese	R99	6.1			C143	C143	E.1/29 AND E.1/15	
	UCS2 display in Katakana	R99	7.1			C145	C145	E.1/29 AND E.1/15	
	Frames	Rel-6	TBD				C133	E.1/29 AND E.1/177 AND E.1/178	
17	**POLLING OFF**	R996	1.1	M	M	M	M	E.1/23	
18	**PROVIDE LOCAL INFO**								
	location information	R99	1.1	M	M	M	M	E.1/31	
	IMEI	R99	1.2	M	M	M	M	E.1/31	
	network measurement results and BCCH channel list	R99	1.3	M	M	M	M	E.1/32 AND E.1/67	
	Date, time and time zone	R99	1.4	M	M	M	M	E.1/59	
	language setting	R99	1.5	M	M	M	M	E.1/68	
	Timing advance	R99	1.6	M	M	M	M	E.1/69	
	Access Technology	Rel-4	1.7	M	M	M	M	E.1/72	
	Void								
	IMEISV	Rel-6	1.9				M	E.1/143	
	Search Mode Change	Rel-6	1.10				M	E.1/144	
	Charge State of the Battery	Rel-6	1.11				C139	E.1/170	
	UTRAN measurements	Rel-6	1.12				M	E.1/183	
19	**SET UP EVENT LIST**								
	Set up call connected event	R99	1.1	M	M	M	M	E.1/33 AND E.1/35	
	Replace by new event list	R99	1.2	M	M	M	M	E.1/33 AND E.1/35 AND E.1/36	
	Remove event	R99	1.3	M	M	M	M	E.1/33 AND E.1/35	
	Remove Event on ME Power Cycle	R99	1.4	M	M	M	M	E.1/33 AND E.1/35	
20	**PERFORM CARD APDU**								
	Additional card inserted, Select MF and Get Response	R99	1.1	C109	C109	C109	C109	E.1/51	
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	R99	1.2	C109	C109	C109	C109	E.1/51	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	Additional card inserted, card powered off	R99	1.3	C109	C109	C109	C109	E.1/51	
	No card inserted, card powered off	R99	1.4	C109	C109	C109	C109	E.1/51	
	Invalid card reader identifier	R99	1.5	C109	C109	C109	C109	E.1/51	
	Detachable reader	R99	2.1	C116	C116	C116	C116	E.1/51	
21	**POWER OFF CARD**								
	Additional card inserted	R99	1.1	C109	C109	C109	C109	E.1/50	
	No card inserted	R99	1.2	C109	C109	C109	C109	E.1/50	
	Detachable reader	R99	2.1	C116	C109	C109	C109	E.1/50	
22	**POWER ON CARD**								
	Additional card inserted	R99	1.1	C109	C109	C109	C109	E.1/49	
	No ATR	R99	1.2	C109	C109	C109	C109	E.1/49	
	No card inserted	R99	1.3	C109	C109	C109	C109	E.1/49	
	Detachable reader	R99	2.1	C116	C116	C116	C116	E.1/49	
23	**GET READER STATUS**								
	Additional card inserted, card powered	R99	1.1	C109	C109	C109	C109	E.1/52	
	Additional card inserted, card not powered	R99	1.2	C109	C109	C109	C109	E.1/52	
	Additional card inserted, card not present	R99	1.3	C109	C109	C109	C109	E.1/52	
	Detachable reader	R99	2.1	C116	C116	C116	C116	E.1/52	
24	**TIMER MANAGEMENT**								
	Start timer 1 several times, get the current value of the timer and deactivate the timer successfully	R99	1.1	M	M	M	M	E.1/57 AND E.1/58	
	Start timer 2 several times, get the current value of the timer and deactivate the timer successfully	R99	1.2	M	M	M	M	E.1/57 AND E.1/58	
	Start timer 8 several times, get the current value of the timer and deactivate the timer successfully	R99	1.3	M	M	M	M	E.1/57 AND E.1/58	
	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	R99	1.4	M	M	M	M	E.1/57 AND E.1/58	
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	R99	1.5	M	M	M	M	E.1/57 AND E.1/58	
	Start 8 timers successfully	R99	1.6	M	M	M	M	E.1/57 AND E.1/58	
25	**ENVELOPE TIMER EXPIRATION**								
	Pending proactive UICC command	R99	2.1	M	M	M	M	E.1/6 AND E.1/57	
	USIM application toolkit busy	R99	2.2	M	M	M	M	E.1/6 AND E.1/57 AND E.1/20	
26	**SET UP IDLE MODE TEXT**								
	Display idle mode text	R99	1.1	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Replace idle mode text	R99	1.2	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Remove idle mode test	R99	1.3	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Competing information on ME display	R99	1.4	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	ME powered cycled	R99	1.5	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Refresh with USIM initialization	R99	1.6	M	M	M	M	E.1/61 AND E.1/24 AND E.1/33 AND E.1/39	
	Large text string	R99	1.7	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	Followed by a Display Text	R99	1.8	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39 AND E.1/17	
	Followed by a Play Tone	R99	1.9	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39 AND E.1/21	
	Icons	R99	2.1, 2.2, 2.3, 2.4	C108	C108	C108	C108	E.1/61 AND E.1/39	
	UCS2 display in Cyrillic	R99	3.1	C118	C118	C118	C118	E.1/61 AND E.1/15 AND E.1/39	
	Text attribute	Rel-5	4.1 to 4.10			C127	C127	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124	
	UCS2 display in Chinese	R99	5.1			C143	C143	E.1/61 AND E.1/15 AND E.1/39	
	UCS2 display in Katakana	R99	6.1			C145	C145	E.1/61 AND E.1/15 AND E.1/39	
	Frames	Rel-6	TBD				C133	E.1/61 AND E.1/177 AND E.1/178	
27	**RUN AT COMMAND**								
	No alpha Identifier	R99	1.1	C110	C110	C110	C110	E.1/62	
	null data alpha identifier presented	R99	1.2	C110	C110	C110	C110	E.1/62	
	alpha identifier presented	R99	1.3	C110	C110	C110	C110	E.1/62	
	Icons	R99	2.1, 2.2, 2.3, 2.4, 2.5	C114	C114	C114	C114	E.1/62	
	Text attribute	Rel-5	3.1 to 3.10			C129	C129	E.1/62 AND E.1/124	
	UCS2 Display in Cyrillic	R99	4.1			C118	C118	E.1/62 AND E.1/15	
	UCS2 display in Chinese	R99	5.1			C143	C143	E.1/62 AND E.1/15	
	UCS2 display in Katakana	R99	6.1			C145	C145	E.1/62 AND E.1/15	
	Frames	Rel-6	TBD				C135	E.1/62 AND E.1/177 AND E.1/178	
28	**SEND DTMF**								
	Normal	R99	1.1	M	M	M	M	E.1/66	
	alpha identifier	R99	1.2, 1.3	M	M	M	M	E.1/66	
	Mobile is not in a speech call	R99	1.4	M	M	M	M	E.1/66	
	Icons	R99	2.1, 2.2, 2.3	C108	C108	C108	C108	E.1/66	
	UCS2 display in Cyrillic	R99	3.1	C118	C118	C118	C118	E.1/66 AND E.1/15	
	Text attribute	Rel-5	4.1 to 4.10			C127	C127	E.1/66 AND E.1/124	
	UCS2 display in Chinese	R99	5.1			C143	C143	E.1/66 AND E.1/15	
	UCS2 display in Katakana	R99	6.1			C145	C145	E.1/66 AND E.1/15	
	Frames	Rel-6	TBD				C133	E.1/66 AND E.1/177 AND E.1/178	
29	**LANGUAGE NOTIFICATION**								
	Specific language notification	R99	1.1	M	M	M	M	E.1/70	
	Non specific language notification	R99	1.2	M	M	M	M	E.1/70	
30	**LAUNCH BROWSER**								
	No session already launched: Connect to the default URL	R99	1.1	C111	C111	C111	C111	E.1/71	
	connect to the specified URL, alpha identifier length=0	R99	1.2	C111	C111	C111	C111	E.1/71	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	Browser identity, no alpha identifier	R99	1.3	C111	C111	C111	C111	E.1/71	
	one bearer specified and gateway/proxy identity	R99	1.4	C122	C122	C122	C122	E.1/71 AND E.1/98	
	several bearers specified, gateway/proxy id specified	R99	1.5	C122	C122	C122	C122	E.1/71 AND E.1/98 AND E.1/97	
	Interaction with current session	R99	2.1, 2.2, 2.3	C111	C111	C111	C111	E.1/71	
	UCS2 display in Cyrillic	R99	3.1	C111 AND 118	C111 AND 118	C111 AND 118	C111 AND 118	E.1/71 AND E.1/15	
	Icons	R99	4.1, 4.2	C115	C115	C115	C115	E.1/71	
	Text attribute	Rel-5	5.1 to 5.10			C130	C130	E.1/71 AND E.1/124	
	UCS2 display in Chinese	R99	6.1			C111 AND C143	C111 AND C143	E.1/71 AND E.1/15	
	UCS2 display in Katakana	R99	7.1			C111 AND C145	C111 AND C145	E.1/71 AND E.1/15	
	Frames	Rel-6	TBD				C136	E.1/71 AND E.1/177 AND E.1/178	
31	**OPEN CHANNEL**								
	Immediate link establishment, CSD, 9600 bps	R99	1.1, 1.2, 1.3, 1.4, 1.5, 1.6	C113	C113	C113	C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, 9600 bps, performed with modification	R99	1.7	C113	C113	C113	C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, Network currently unable to process command	R99	1.8	C113	C113	C113	C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, No channel available	R99	1.9	C113	C113	C113	C113	E.1/89 AND E.1/97	
	CSD, ME busy on call	R99	1.10	C113	C113	C113	C113	E.1/89 AND E.1/97 AND E.1/29	
	immediate link establishment, GPRS, no local address, no alpha identifier, no network access name	R99	2.1	C121	C121	C121	C121	E.1/89 AND E.1/98	
	immediate link establishment GPRS, no alpha identifier, with network access name	R99	2.2	C121	C121	C121	C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, with alpha identifier	R99	2.3	C121	C121	C121	C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, with null alpha identifier	R99	2.4	C121	C121	C121	C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, command performed with modifications (buffer size)	R99	2.5	C121	C121	C121	C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command	R99	2.7	C121	C121	C121	C121	E.1/89 AND E.1/98	
	GPRS, ME busy on call	R99	2.8	C121	C121	C121	C121	E.1/89 AND E.1/98	
	Default bearer	R99	TBD	C121	C121	C121	C121	E.1/89 AND E.1/98 AND C132	
	Local Bearer	Rel-4	TBD	C132	C132	C132	C132	E.1/89 AND E.1/98 AND C132	
	Text attribute	Rel-5	5.1 to 5.10			C131	C131	E.1/89 AND E.1/98 AND E.1/124	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	Frames	Rel-6	TBD				C137	E.1/89 AND E.1/98 AND E.1/177 AND E.1/178	
32	**CLOSE CHANNEL**								
	successful	R99	1.1	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/90	
	with an invalid channel identifier	R99	1.2	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/90	
	on an already closed channel	R99	1.3	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/90	
	Text attribute	Rel-5	2.1 to 2.10			C131	C131	E.1/89 AND E.1/90 AND E.1/124	
	Frames	Rel-6	TBD				C137	E.1/89 AND E.1/98 AND E.1/177 AND E.1/178	
33	**RECEIVE DATA**								
	already opened channel	R99	1.1	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/91	
	Text attribute	Rel-5	2.1 to 2.10			C131	C131	E.1/89 AND E.1/91 AND E.1/124	
	Frames	Rel-6	TBD				C137	E.1/89 AND E.1/91 AND E.1/177 AND E.1/178	
34	**SEND DATA**								
	immediate mode	R99	1.1	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/92	
	Store mode	R99	1.2	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/92	
	Store mode, Tx buffer fully used	R99	1.3	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/92	
	2 consecutive SEND DATA Store mode	R99	1.4	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/92	
	immediate mode with a bad channel identifier	R99	1.5	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/92	
	immediate mode, Proactive UICC session terminated by the user	R99	1.6	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/92	
	Text attribute	Rel-5	2.1 to 2.10			C131	C131	E.1/89 AND E.1/92 AND E.1/124	
	Frames	Rel-6	TBD				C137	E.1/89 AND E.1/92 AND E.1/177 AND E.1/178	
35	**GET CHANNEL STATUS**								
	without any BIP channel opened	R99	1.1	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/93	
	with a BIP channel currently opened	R99	1.2	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/93	
	after a link dropped	R99	1.3	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/89 AND E.1/93	
36	**DATA DOWNLOAD TO UICC**								
37	**SMS-PP DATA DOWNLOAD**								

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	General data coding, UICC responds with '90 00'	R99	1.1	M	M	M	M	E.1/2	
	UICC responds with '61 XX'	R99	1.2	M	M	M	M	E.1/2	
	More time	R99	1.3	M	M	M	M	E.1/2	
	8 bit alphabet	R99	1.4	M	M	M	M	E.1/2	
	Data coding / message class	R99	1.5, 1.6	M	M	M	M	E.1/2	
38	**SMS-CB DATA DOWNLOAD**				M	M	M		
	ME does not display message	R99	1.1	M	M	M	M	E.1/3	
	More time	R99	1.2	M	M	M	M	E.1/3 AND E.1/20	
	ME displays message	R99	1.3	M	M	M	M	E.1/3	
39	**CALL CONTROL BY USIM**				M	M	M		
	Procedure for MO calls (Cell identity in envelope call control)	R99	1.1 to 1.14	M	M	M	M	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/64	
	Procedure for SS (Cell identity in envelope call control)	R99	2.1, 2.2, 2.3, 2.4	M	M	M	M	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	
	Interaction with FDN (Cell identity in envelope call control)	R99	3.1, 3.2, 3.3, 3.5	M	M	M	M	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND C146	
	BDN service enabled	R99	4.1	M	M	M	M	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND C147	
	BDN service enabled, interaction with emergency call codes, R99 only	R99	4.2A	M				E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND C147	
	BDN service enabled, interaction with emergency call codes, Rel-4+	Rel-4	4.2B		M	M	M	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 ND E.1/64 AND C147	
	FDN and BDN enabled, set up a call in EFFDN, Allowed with modifications	R99	4.3	M	M	M	M	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND C146 AND C147	
	Call control on GPRS	Rel-5	TBD			C102	C102	E.1/98 AND E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13	
	BDN service enabled, ME not supporting BDN	R99	5.1			C147	C147	N/A	
40	**EVENT DOWNLOAD**								
	27.22.7.1: MT call event	R99	1.1	M	M	M	M	E.1/34 AND E.1/33	
	27.22.7.2.1: call connected event	R99	1.1	M	M	M	M	E.1/35 AND E.1/33	
	27.22.7.2.2: ME supporting SET UP CALL	R99	2.1	M	M	M	M	E.1/35 AND E.1/29 AND E.1/33	
	27.22.7.3: call disconnected event	R99	1.1	M	M	M	M	E.1/36 AND E.1/33	
	27.22.7.4: location status event	R99	1.1	M	M	M	M	E.1/37 AND E.1/33	
	27.22.7.5: user activity event	R99	1.1	M	M	M	M	E.1/38 AND E.1/33	
	27.22.7.6: idle screen available event	R99	1.1	M	M	M	M	E.1/39 AND E.1/33	

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
	27.22.7.7.1: Card reader status normal	R99	1.1	C109	C109	C109	C109	E.1/40 AND E.1/33	
	27.22.7.7.2: Detachable card reader	R99	2.1	C116	C116	C116	C116	E.1/40 AND E.1/33	
	27.22.7.8: language selection event	R99	1.1	M	M	M	M	E.1/41 AND E.1/33	
	27.22.7.9: Browser termination event	R99	1.1	C111	C111	C111	C111	E.1/42 AND E.1/33	
	27.22.7.10: Data available event	R99	1.1	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/43 AND E.1/89 AND E.1/33	
	27.22.7.11: Channel status event	R99	1.1	C113 AND C121	C113 AND C121	C113 AND C121	C113 AND C121	E.1/44 AND E.1/89 AND E.1/33	
	27.22.7.12: Access Technology change event	Rel-4	TBD		M	M	M	E.1/45 AND E.1/33	
	27.22.7.13: Display parameter changed event	Rel-4	TBD		M	M	M	E.1/46 AND E.1/33	
	27.22.7.14: Local connection event	Rel-4	TBD		M	M	M	E.1/47 AND E.1/33	
	27.22.7.15: Network search mode change event	Rel-6	TBD				M	E.1/48 AND E.1/33	
	27.22.7.16: Browsing status event	Rel-6	TBD				M	E.1/193 AND E.1/33	
	Frame information changed event	Rel-6	TBD				C137	E.1/195 AND E.1/177 AND E.1/178	
41	**MO SMS Control by USIM**								
	With proactive command, Allowed , no modification	R99	1.1	M	M	M	M	E1/12 AND E.1/26	
	With user SMS, Allowed , no modification	R99	1.2	M	M	M	M	E1/12	
	With proactive command, Not allowed	R99	1.3	M	M	M	M	E1/12 AND E.1/26	
	With user SMS, Not allowed	R99	1.4	M	M	M	M	E1/12	
	With proactive command, Allowed, with modifications	R99	1.5	M	M	M	M	E1/12 AND E.1/26	
	With user SMS, Allowed, with modifications	R99	1.6	M	M	M	M	E1/12	
	With Proactive command, the USIM responds with '90 00', Allowed, no modification	R99	1.7	M	M	M	M	E1/12 AND E.1/26	
	Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no modification	R99	1.8	M	M	M	M	E1/12	
	Send Short Message attempt by user, the USIM responds with '93 00	R99	1.9	M	M	M	M	E1/12	
42	SERVICE SEARCH	Rel-4	TBD		M	M	M	E.1/94	
43	GET SERVICE INFORMATION	Rel-4	TBD		M	M	M	E.1/95	
44	DECLARE SERVICE	Rel-4	TBD		M	M	M	E.1/96	
45	RETRIEVE MULTIMEDIA MESSAGE	Rel-6	TBD				C134	E.1/173	
46	SUBMIT MULTIMEDIA MESSAGE	Rel-6	TBD				C134	E.1/173	
47	DISPLAY MULTIMEDIA MESSAGE	Rel-6	TBD				C134	E.1/173	
48	SET FRAMES	Rel-6	TBD				C133	E.1/177 AND E.1/178	
49	GET FRAME STATUS	Rel-6	TBD				C133	E.1/178 AND E.1/177	
50	Handling of command number								
	DISPLAY TEXT normal priority	R99	1.1	M	M	M	M	E.1/17	

Item	Description	Re-lease	Test sequence(s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Terminal Profile	Sup-port
C101	IF A.1/1 THEN M ELSE N/A							-- O_Cap_Conf	
C102	IF A.1/16 THEN M ELSE N/Avoid							-- O_GPRS	
C103	void								
C104	IF A.1/2 THEN M ELSE N/A							-- O_Sust_text	
C105	IF A.1/3 AND A.1/41 THEN M ELSE N/A							-- O_Ucs2_Entry_Cyrillic	
C106	IF A.1/4 THEN M ELSE N/A							-- O_Ext_Str	
C107	IF A.1/5 THEN M ELSE N/A							-- O_Help	
C108	IF A.1/6 THEN (O.1 OR O.2) ELSE N/A							-- O_Icons	
C109	IF A.1/7 THEN M ELSE N/A							-- O_Dual_Slot	
C110	IF A.1/9 THEN M ELSE N/A							-- O_Run_At	
C111	IF A.1/10 THEN M ELSE N/A							-- O_LB	
C112	IF A.1/11 THEN M ELSE N/A							-- O_Soft_key	
C113	IF A.1/12 THEN M ELSE N/A							-- O_BIP_CSD	
C114	IF C110 AND C108 THEN M ELSE N/A							-- O_Run_At AND O_Icons	
C115	IF C111 AND C108 THEN M ELSE N/A							-- O_LB AND O_Icons	
C116	IF C105 AND A.1/8 THEN M ELSE N/A							-- O_Dual_Slot AND O_Detach_Rdr	
C117	void								
C118	IF A.1/154 AND A.1/41 THEN M ELSE N/A							-- O_Ucs2_Disp_Cyrillic	
C119	IF A.1/19 THEN M ELSE N/A							-- O_Redial	
C120	IF A.1/20 THEN M ELSE N/A							-- O_D_NoResp	
C121	IF A.1/21 AND A.1/17 THEN M ELSE N/A							-- O_BIP_GPRS AND O_UDP	
C122	IF C111 AND A.1/16 THEN M ELSE N/A							-- O_LB AND O_GPRS	
C123	void								
C124	IF A.1/22, test x.A M ELSE x.B M (where x is the expected sequence number value) -- O_CP_Subaddr								
C125	IF A.1/23 THEN M ELSE N/A							-- O_Imm_Resp	
C126	IF A.1/24 THEN M ELSE N/A							-- O_Duration	
C127	IF A.1/25 THEN M ELSE N/A							-- O_Text_Attrib	
C128	void								
C129	IF C110 AND C108 THEN M ELSE N/A							-- O_Run_At AND O_Icons	
C130	IF C111 AND C108 THEN M ELSE N/A							-- O_LB AND O_Icons	
C131	IF C121 AND C127 THEN M ELSE N/A							-- O_ O_BIP_GPRS AND O_Text_Attrib	
C132	IF A.1/27 THEN M ELSE N/A							-- O_BIP_Local	
C133	IF A.1/37 THEN M ELSE N/A							-- O_Frames	
C134	IF A.1/38 THEN M ELSE N/A							-- O_MMS	
C135	IF C110 AND C133 THEN M ELSE N/A							-- O_Run_At AND O_Frames	
C136	IF C111 AND C133 THEN M ELSE N/A							-- O_LB AND O_Frames	
C137	IF A.1/12 AND C133 THEN M ELSE N/A							-- O_BIP AND O_Frames	
C138	IF A.1/39 THEN M ELSE N/A							-- O_Tones	
C139	IF A.1/35 THEN M ELSE N/A							-- O_Batt	
C140	IF A.1/39 THEN M ELSE N/A							-- O_UC_Before_EnvCC	
C141	IF A.1/40 THEN M ELSE N/A							-- O_UC_After_EnvCC	
C142	IF A.1/3 AND A.1/42 THEN M ELSE N/A							-- O_UCS2_Entry_Chinese	
C143	IF A.1/15 AND A.1/42 THEN M ELSE N/A							-- O_UCS2_Disp_Chinese	
C144	IF A.1/3 AND A.1/43 THEN M ELSE N/A							-- O_UCS2_Entry_Katakana	
C145	IF A.1/15 AND A.1/43 THEN M ELSE N/A							-- O_UCS2_Disp_Katakana	
C146	IF A. 1/45 THEN M ELSE N/A							-- O_FDN	
C147	IF A. 1/44 THEN M ELSE N/A							-- O_BDN	
O.1	IF (the ME supports icons as defined in record 1 of EF(IMG), tests x.1A M ELSE tests x.1B M (where x is the expected sequence number value)								
O.2	IF the ME supports icons as defined in record 2 of EF(IMG), tests x.2A M ELSE x.2B M (where x is the expected sequence number value)								
O.3	void								

3.5 Conventions for mathematical notations

The conventions for mathematical notations specified below shall apply.

3.5.1 Mathematical signs

The "plus or minus" sign is expressed by "±".

The sign "multiplied by" is expressed by "∗".

The sign "divided by" is expressed by "/", or the common division bar.

The sign "greater than or equal to" is expressed by "≥".

The sign "less than or equal to" is expressed by "≤".

4 Test equipment

The test equipment is specified in 3GPP TS 34.108 [12] clause 4.

5 Testing methodology in general

5.1 Testing of optional functions and procedures

Any function or procedure which is optional, as indicated in the present document, may be subject to a conformance test if it is implemented in the ME.

5.2 Test interfaces and facilities

The UICC, and (U)SS interfaces provides the main test interfaces for the purpose of performing conformance tests.

The tests which require a network simulator shall be carried out with using a Universal System Simulator when accessing a UTRAN, and if theses tests have to be peformed additionally when accessing a GERAN a System Simulator shall be used instead.

5.3 Information to be provided by the apparatus supplier

The information to be provided by the apparatus supplier specified in both 3GPP TS 34.108 [12] and 3GPP TS 51.010-1 [23] shall apply, unless otherwise specified in the present clause.

In addition, the apparatus supplier shall provide the information with respect to the Supported Option table A.1 and to ME"s default configuration table A.2.

Table A.2: ME"s default configuration

Item	Description	Value	Status
1	DISPLAY TEXT: No Response from user timeout interval		C
2	GET INKEY: No response from user Timeout interval		C
3	GET INPUT: No response from user Timeout interval		C
4	SELECT ITEM: No response from user Timeout interval		C
5	DISPLAY TEXT Text Attributes Alignment [Left or Center or Right]		C
6	GET INKEY Text Attributes Alignment [Left or Center or Right]		C
7	GET IMPUT Text Attributes Alignment [Left or Center or Right]		C
8	PLAY TONE Text Attributes Alignment [Left or Center or Right]		C
9	SET UP MENU Text Attributes Alignment [Left or Center or Right]		C
10	SELECT ITEM Text Attributes Alignment [Left or Center or Right]		C
11	SEND SHORT MESSAGE Text Attributes Alignment [Left or Center or Right]		C
12	SEND SS Text Attributes Alignment [Left or Center or Right]		C
13	SEND USSD Text Attributes Alignment [Left or Center or Right]		C
14	SET UP CALL Text Attributes Alignment [Left or Center or Right]		C
15	SET UP IDLE MODE TEXT Text Attributes Alignment [Left or Center or Right]		C
16	RUN AT Text Attributes Alignment [Left or Center or Right]		C
17	SEND DTMF Text Attributes Alignment [Left or Center or Right]		C
18	LAUNCH BROWSER Text Attributes Alignment [Left or Center or Right]		C
19	OPEN CHANNEL Text Attributes Alignment [Left or Center or Right]		C
20	CLOSE CHANNEL Text Attributes Alignment [Left or Center or Right]		C
21	RECEIVE DATA Text Attributes Alignment [Left or Center or Right]		C
22	SEND DATA Text Attributes Alignment [Left or Center or Right]		C
23	IMEI		M
24	IMEISV		C
25	[Reserved]		
26	Additional Card Reader Id		C
27	Channel Id		C
NOTE : Conditional values shall be provided if the corresponding option is supported in the table A.1			

6 Implicit testing

For some 3GPP features conformance is not verified explicitly in the present document. This does not imply that correct functioning of these features is not essential, but that these are implicitly tested to a sufficient degree in other tests.

It should be noted that for these features some aspects have to be and are explicitly tested, e.g. the ability to switch between 1.8v and 3v operation.

Some UICC features will be explicitly tested as result of other tests. These should be identified for the following reason:

- To identify the areas of overlap and thus provide a more efficient testing.

7 Measurement uncertainty

The measured value relating to the corresponding limit shall be used to determine whether or not a terminal equipment meets the requirement. (ETR 028, annex B).

This process is often referred to as "shared risk".

8 Format of tests

In general the following basic format for tests is used:

27.22.X.X. Tested command

27.22.X.X.1 Command tested in «environment #1'' (NORMAL, ICONS, UCS2 …)

27.22.X.X.1.1 Definition and applicability

This clause refers back to clause 3.2.2.

27.22.X.X.1.2 Conformance requirement

Only if required, this clause details the necessary core specification references.

27.22.X.X.1.3 Test purpose

This clause details the purpose of the test.

27.22.X.X.1.4 Method of test

27.22.X.X.1.4.1 Initial conditions

If present this clause defines the initial conditions to be established before running each test sequence.

27.22.X.X.1.4.2 Procedure

This clause details the test procedure. Each test sequence shall be carried out independently unless otherwise stated.

- Sequence 1.1 (further initial conditions, added here)

Command 1.1.1
TERMINAL RESPONSE1.1.1A or 1.1.1B
Command 1.1.2
TERMINAL RESPONSE1.1.2

PROACTIVE COMMAND 1.1.1

TERMINAL RESPONSE 1.1.1A

TERMINAL RESPONSE 1.1.1B

PROACTIVE COMMAND 1.1.2

TERMINAL RESPONSE 1.1.2

- Sequence 1.2

Command 1.2.1
TERMINAL RESPONSE 1.2.1
Command 1.2.2
TERMINAL RESPONSE1.2.2 (same as TERMINAL RESPONSE 1.2.1)
Command 1.2.3
TERMINAL RESPONSE 1.2.3

PROACTIVE COMMAND 1.2.1

PROACTIVE COMMAND 1.2.2

PROACTIVE COMMAND 1.2.3

TERMINAL RESPONSE 1.2.1

TERMINAL RESPONSE 1.2.2

TERMINAL RESPONSE 1.2.3

- Sequence 1.3

Command 1.3.1
TERMINAL RESPONSE1.3.1

PROACTIVE COMMAND 1.3.1

TERMINAL RESPONSE 1.3.1

27.22.X.X.1.5 **Test requirement**

This clause details the conditions to be met for successful completion of the test.

27.22.X.X.2 **Command tested in "environment #2" (NORMAL, ICONS, UCS2 …)**

27.22.X.X. 2.1 **Definition and applicability**

27.22.X.X. 2.2 **Conformance requirement**

27.22.X.X. 2.3 **Test purpose**

27.22.X.X. 2.4 **Method of test**

27.22.X.X. 2.4.1.1 **Initial conditions**

27.22.X.X. 2.4.1.2 **Procedure**

- Sequence 2.1

Command 2.1.1
TERMINAL RESPONSE2.1.1A or 2.1.1B
Command 2.1.2
TERMINAL RESPONSE2.1.2

PROACTIVE COMMAND 2.1.1

TERMINAL RESPONSE 2.1.1A

TERMINAL RESPONSE 2.1.1B

PROACTIVE COMMAND 2.1.2

TERMINAL RESPONSE 2.1.2

- Sequence 2.2

Command 2.2.1
TERMINAL RESPONSE 2.2.1
Command 2.2.2
TERMINAL RESPONSE 2.2.2 (same as TERMINAL RESPONSE 2.2.1)
Command 2.2.3
TERMINAL RESPONSE 2.2.3

PROACTIVE COMMAND 2.2.1

PROACTIVE COMMAND 2.2.2

PROACTIVE COMMAND 2.2.3

Coding TERMINAL RESPONSE 2.2.1

Coding TERMINAL RESPONSE 2.2.2

Coding TERMINAL RESPONSE 2.2.3

27.22.X.X.2.5 **Test requirement**

9 Generic call set up procedures

The generic call set up procedure for PS and CS calls specified for GERAN and UTRAN shall apply.

For a ME accessing UTRAN the call set up procedures specified in 3GPP TS 34.108 [12] subclause 7.2.3.1.3 and 7.2.3.2.3 shall apply, for session setup the ones defined in 7.2.4.1.3 and 7.2.4.2.3, unless otherwise specified in the present clause.

For a ME accessing GERAN the call set up procedures specified in 3GPP TS 51.010-1 [23] subclause 26.9 shall apply, for session setup the ones defined in 45.2 and 45.4, unless otherwise specified in the present clause.

10 - 26 Not used

27 Testing of the UICC/ME interface

This clause is an addition to 3GPP TS 31.121 [21] to confirm the correct interpretation of the USIM Application Toolkit commands and the correct operation of the Toolkit facilities.

The definitions, declarations and default values specified in 3GPP TS 31.121 [21] clause 4.1 shall apply, unless otherwise specified in the present clause.

A USIM Simulator with the appropriate USIM Application Toolkit functionality will be required. The USIM data defined below shall be used for all test cases unless otherwise specified within the test case.

The comprehension required flags in SIMPLE-TLV objects that are included in a TERMINAL RESPONSE or an ENVELOPE shall be set as described in TS 31.111 [15]. This means that in cases where it is up to the ME to decide if this flag is used or not, the corresponding Tag coding in the TERMINAL RESPONSEs and ENVELOPEs in this document represents only one of the two valid possibilities.

27.1 - 27.21 Void

27.22 USIM Application Toolkit

27.22.1A General Test purpose

Testing of functional conformance to USIM Application Toolkit commands, including proactive UICC commands.

All facilities given by the TERMINAL PROFILE as supported, for which tests exist in the present document, shall be tested.

Many of the proactive UICC commands include an alpha identifier data object. This is intended to be a short one or two word identifier for the ME to optionally display on the screen along with any other indications, at the same time as the ME performs the UICC command.

NOTE: The sequence of USIM Application Toolkit commands are specific to the Toolkit Application being executed within the UICC, hence sequential testing of commands is not possible. The testing will therefore have to be performed on a command by command basis.

27.22.2A Definition of default values for USIM Application Toolkit testing

A UICC containing the following default values is used for all tests of this clause unless otherwise stated.

For each item, the logical default values and the coding within the Elementary Files (EF) of the USIM follow, as defined in:

- 3GPP TS 31.121 [21], clause 4.1.

NOTE 1: Bx represents byte x of the coding.

NOTE 2: Unless otherwise defined, the coding values in binary.

EF$_{UST}$ (USIM Service Table)

Logically:

(Service 01)	Local Phone Book available
(Service 02)	Fixed dialling numbers available
(Service 06)	Barred dialling numbers available
(Service 10)	Short Message Storage available
(Service 11)	Short Message Status Reports available
(Service 12)	Short Message Service Parameters available
(Service 15)	Cell Broadcast Message Identifier available
(Services 17, 18)	The Group Identifier level 1 and level 2 not available
(Service 20)	User controlled PLMN selector available
(Service 22)	Image (IMG) available
(Service 27)	The GSM Access available
(Service 28)	Data download via SMS-PP available
(Service 29)	Data download via SMS-CB available
(Service 30)	Call Control by USIM not available
(Service 31)	MO-SMS Control by USIM not available
(Service 32)	RUN AT COMMAND available
(Service 33)	(Packed Switched Domain) shall be set to '1'
(Service 34)	Enabled Services Table available

Coding:	B1	B2	B3	B4	B5
binary	xx1x xx11	x1xx 111x	xx1x 1x00	1001 11xx	xxx xx11

The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

EF$_{EST}$ (Enabled Services Table)

Logically:

(Service 1)	Fixed Dialling number deactivated
(Service 2)	Barred Dialling number deactivated
(Service 3)	APN Control List deactivated

Coding:	B1
binary	00

EF$_{IMSI}$ (International Mobile Subscriber Identity)

Logically:

Length:	8 bytes
IMSI:	001 01 0123456789

Coding:	'08 09 10 10 10 32 54 76 98'

EF$_{AD}$ (Administrative Data)

Logically:　Type approval operations
OFM to be deactivated by the Terminal
MNC:　　2 digit

Coding:	B1	B2	B3	B4
Hex	80	00	00	02

EF$_{LOCI}$ (Location Information)

Logically:

LAI-MCC:	001
LAI-MNC:	01
LAI-LAC:	0001
TMSI:	"FF .. FF"

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	FF	FF	FF	FF	00	F1	10	00	01	FF	00

EF$_{PSLOCI}$ (Packet Switch Location Information)

Logically:

RAI-MCC:	001
RAI-MNC:	01
RAI-LAC:	0001
RAI-RAC:	05
P-TMSI:	"FF….FF"
P-TMSI signature value:	"FF…FF"

Coding:	B1	B2	B3	B4	B5	B6	B7
Hex	FF	FF	FF	FF	FF	FF	FF

Coding:	B8	B9	B10	B11	B12	B13	B14
Hex	00	F1	10	00	01	05	00

EF$_{CBMI}$ (Cell Broadcast Message Identifier)

Logically:

Cell Broadcast Message Identifier 1: '03 E7'

Coding:	03	E7	FF	..	FF						

EF$_{CBMID}$ (Cell Broadcast Message Identifier for Data Download)

Logically:

Cell Broadcast Message Identifier 1: '10 01'

Coding:	10	01	FF	..	FF						

EF$_{FDN}$ (Fixed Dialling Numbers)

Logically:

Record 1:	Length of alp ha identifier:	6 characters;
	Alpha identifier:	"FDN111";
	Length of BCD number:	"03";
	TON and NPI:	Telephony and unknown;
	Dialled number:	123;
	CCI:	None;
	Ext2:	None.

Coding for record 1:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	46	44	4E	31	31	31	03	81	21	F3	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

Record 2: Length of alpha identifier: 6 characters;
Alpha identifier: "FDN222";
Length of BCD number: "04";
TON and NPI: Telephony and Unknown;
Dialled number: 24680;
CCI: None;
Ext2: None.

Coding for record 2:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	46	44	4E	32	32	32	04	81	42	86	F0	FF	FF

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

Record 3: Length of alpha identifier: 6 characters;
Alpha identifier: "FDN333";
Length of BCD number: "0B";
TON and NPI: Telephony and International;
Dialled number: +12345678901234567890;
CCI: None;
Ext2: None.

Coding for record 3:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	46	44	4E	33	33	33	0B	91	21	43	65	87	09

	B14	B15	B16	B17	B18	B19	B20
	21	43	65	87	09	FF	FF

EF$_{BDN}$ (Barred Dialling Numbers)

Logically:

Record 1: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN111";
Length of BCD number: "06";
TON and NPI: Telephony and International;
Dialled number: +1357924680;
CCI: None;
Ext4: None
Comprehension method pointer: None.

Coding for record 1:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	31	75	29	64	08

	B14	B15	B16	B17	B18	B19	B20	B21
	FF	FF	FF	FF	FF	FF	FF	FF

Record 2: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN222";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 122;
CCI: None;
Ext4: None
Comprehension method pointer: None.

Coding for record 2:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	32	32	32	04	81	21	F2	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20	B21
	FF	FF	FF	FF	FF	FF	FF	FF

Record 3:	Length of alpha identifier:	6 characters;
	Alpha identifier:	"BDN333";
	Length of BCD number:	"03";
	TON and NPI:	Telephony and Unknown;
	Dialled number:	112;
	CCI:	None;
	Ext4:	None.
	Comprehension method pointer: None	

Coding for record 3:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	33	33	33	03	81	11	F2	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20	B21
	FF	FF	FF	FF	FF	FF	FF	FF

EF$_{ECC}$ (Emergency Call Codes)

Logically:	Emergency call code:	"122";
	Emergency call code alpha identifier:	"TEST";
	Emergency call Service Category:	RFU

	B1	B2	B3	B4	B5	B6	B7	B8
Coding:								
Hex	21	F2	FF	54	45	53	54	00

EF$_{SMSS}$ (SMS Status)

Logically:	Last used TP-MR not defined.
	Memory capacity available (flag unset b1="1").

	B1	B2
Coding:		
Hex	FF	FF

EF$_{SMSP}$ (Short message service parameters)

Logically:

Record 1:	
Record length:	28 bytes
Parameter Indicators:	
TP-Destination Address:	Parameter absent
TS-Service Centre Address:	Parameter present
TP-Protocol Identifier:	Parameter absent
TP-Data Coding Scheme:	Parameter absent
TP-Validity Period:	Parameter absent
TS-Service Centre Address:	
TON:	International Number
NPI:	"ISDN / telephone numbering plan"
Dialled number string:	"112233445566778"

Coding:	B1	B2	B3	...	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23
Record 1:	FD	FF	FF	...	FF	09	91	11	22	33	44	55	66	77	F8

B24	B25	B26	B27	B28
FF	FF	FF	FF	FF

For the display of icon:

- Under the DF Telecom: creation of DF Graphics (5F50);

- Under the DF 5F50: creation of EF$_{Img}$ (4F20, linear fixed file) and EF$_{Instance}$ (4FXX, transparent file).

EF$_{Img}$ (Image, 4F20)

Record 1:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	08
Image Instance Height:	08
Image Coding Scheme:	11 (basic image)
Image Instance File Identifier:	4F 04 (EF$_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 0A

Coding:

Coding:	01	08	08	11	4F	04	00	00	00	0A	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 2:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	08
Image Instance Height:	08
Image Coding Scheme:	21 (colour image)
Image Instance File Identifier:	4F 02(EF$_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 16

Coding:

Coding:	01	08	08	21	4F	02	00	00	00	16	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 3:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	18
Image Instance Height:	10
Image Coding Scheme:	11 (basic image)
Image Instance File Identifier:	4F 03 (EF$_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 32

Coding:

Coding:	01	18	10	11	4F	03	00	00	00	32	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 4:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	2E
Image Instance Height:	28
Image Coding Scheme:	11 (basic image)
Image Instance File Identifier:	4F 01 (EF$_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 E8

Coding:

Coding:	01	2E	28	11	4F	01	00	00	00	E8	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 5:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	05
Image Instance Height:	05
Image Coding Scheme:	11 (basic image)
Image Instance File Identifier:	4F 05 (EF$_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 08

Coding:

Coding:	01	05	05	11	4F	05	00	00	00	08	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

EF$_{Instance}$ (4F01)

Logically:

Image Instance Data:	see below

Coding:

Coding:	2E	28	00	00	00	00	00	00	00	01	FF	80
	00	00	00	0F	FF	00	00	00	00	77	FE	00
	00	00	01	BF	F8	00	00	00	06	FF	E0	00
	00	00	1A	03	80	00	00	00	6B	F6	BC	00
	00	01	AF	D8	38	00	00	06	BF	60	20	00
	00	1A	FD	80	40	00	00	6B	F6	00	80	00
	01	A0	1F	02	00	00	06	FF	E4	04	00	00
	1B	FF	90	10	00	00	6D	EE	40	40	00	01
	BF	F9	01	00	00	6F	FF	E4	04	00	00	1B
	FF	90	10	00	00	6F	FE	40	40	00	01	BF
	F9	01	00	00	06	FF	E6	04	00	00	1B	FF
	88	10	00	00	6F	FE	20	40	00	01	BF	F8
	66	00	00	06	FF	E0	F0	00	00	1B	FF	80
	80	00	00	7F	FE	00	00	00	03	00	0C	00
	00	00	1F	FF	F8	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00	00	00	00
	1C	21	08	44	EE	00	48	C4	31	92	20	01
	25	11	45	50	80	07	14	45	15	43	80	12
	71	1C	4D	08	00	4A	24	89	32	20	01	C8
	9E	24	4E	E0								

EF_Instance (4F02)

Logically:

Image Instance Data:
Image width:	08	
Image length:	08	
Bits per raster image point:	02	
Number of CLUT entries:	03	
Location of CLUT:	00 16	
Image body:	see below	

Coding:

Coding:	08	08	02	03	00	16	AA	AA	80	02	85	42
	81	42	81	42	81	52	80	02	AA	AA	FF	00
	00	00	FF	00	00	00	FF					

EF_Instance (4F03)

Logically:

Image Instance Data: see below

Coding:

Coding:	18	10	FF	FF	FF	80	00	01	80	00	01	80
	00	01	8F	3C	F1	89	20	81	89	20	81	89
	20	F1	89	20	11	89	20	11	89	20	11	8F
	3C	F1	80	00	01	80	00	01	80	00	01	FF
	FF	FF										

EF_Instance (4F04)

Logically:

Image Instance Data: see below

Coding:

Coding:	08	08	FF	03	A5	99	99	A5	C3	FF

EF_{Instance} (4F05)

Logically:

    Image Instance Data: see below

Coding:

Coding:	05	05	FE	EB	BF	FF	FF	FF

27.22.1 Initialization of USIM Application Toolkit Enabled UICC by USIM Application Toolkit Enabled ME (Profile Download)

27.22.1.1 Definition and applicability

See clause 3.2.2.

27.22.1.2 Conformance requirement

The ME shall support the PROFILE DOWNLOAD command as defined in:

- 3GPP TS 31.111 [15] clause 5.2.

27.22.1.3 Test purpose

To verify that the ME sends a TERMINAL PROFILE command in accordance with the above requirements.

27.22.1.4 Method of test

27.22.1.4.1 Initial conditions

The ME is connected to the USIM Simulator. All elementary files are coded as the default Toolkit personalization..

27.22.1.4.2 Procedure

Expected Sequence 1 (PROFILE DOWNLOAD)

Step	Direction	Message / Action	Comments
1	USER → ME	Power on ME	[UICC Activation]
2	ME → UICC	Select EF PL	
3	UICC → ME	Read EF PL	
4	ME → UICC	TERMINAL PROFILE 1.1	PROFILE DOWNLOAD
5	UICC → ME	NORMAL ENDING OF COMMAND 1.1	
6	ME → UICC	Select USIM Application	

TERMINAL PROFILE: 1.1

Logically:

Coding:

APDU:	CLA=80	INS=10	P1=00	P2=00	P3=XX

DATA IN:	YY	ZZ	…

With XX representing the length of the following DATA IN depending on the USIM Toolkit commands supported by the ME, and with YY, ZZ, … representing here the bytes of the TERMINAL PROFILE data, as specified in 3GPP TS 31.111 [15], clause 5.2.

NORMAL ENDING OF COMMAND: 1.1

Logically:

Coding:

SW1=90	SW2=00

27.22.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.

27.22.2   Contents of the TERMINAL PROFILE command

27.22.2.1   Definition and applicability

See table E.1 in annex B.

27.22.2.2   Conformance requirement

The ME shall support the PROFILE DOWNLOAD command as defined in:

- 3GPP TS 31.111 [15] clause 5.2.

27.22.2.3   Test purpose

1. Verify that the TERMINAL PROFILE indicates that Profile Download facility is supported.

2. Record which USIM Application Toolkit facilities are supported by the ME, to determine which subsequent tests are required.

27.22.2.4   Method of test

27.22.2.4.1   Initial conditions

The ME is connected to the USIM Simulator. All elementary files are coded as the default USIM Application Toolkit personalization.

27.22.1.4.2   Procedure

a) The ME is powered on.

b) After the ME sends the TERMINAL PROFILE command to the USIM Simulator, the USIM Simulator shall record the content of the TERMINAL PROFILE.

c) The USIM Simulator shall return SW1 / SW2 of '90 00'.

d) The contents of the TERMINAL PROFILE is recorded and compared to the corresponding table E.1 "status" column.

The test is terminated upon the ME sending the TERMINAL PROFILE command to the USIM Simulator.

27.22.2.5   Test requirement

1) After step a) the ME shall send the TERMINAL PROFILE command to the USIM Simulator with bit 1 of the first byte set to 1 (facility supported by ME).

2) In table E.1 for the corresponding ME USIM Toolkit Release and Options, The TERMINAL PROFILE information "support" recorded must be in accordance with the "Status" column. Support of features defined only in releases later than currently tested release shall be ignored.

27.22.3 Servicing of proactive UICC commands

27.22.3.1 Definition and applicability

See clause 3.2.2.

27.22.3.2 Conformance requirement

On detection of a pending USIM Application Toolkit command from the UICC the ME shall perform the FETCH command to retrieve the proactive UICC command. The result of the executed command shall be transmitted from the ME to the UICC within a TERMINAL RESPONSE command.

The MORE TIME proactive command is used in this test. The ME shall have knowledge of this command, but may not support this USIM Application Toolkit facility.

- 3GPP TS 31.111 [15] clause 6.3.

27.22.3.3 Test purpose

To verify that the ME uses the FETCH command to obtain the proactive UICC command, after detection of a pending proactive UICC command. The pending proactive UICC command is indicated by the response parameters '91 xx' from the UICC.

To verify that the ME transmits the result of execution of the proactive UICC command to the UICC in the TERMINAL RESPONSE command.

27.22.3.4 Method of test

27.22.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as the USIM Application Toolkit default.

The USIM Simulator is configured to indicate that a proactive UICC command is pending.

The USIM Simulator is configured to monitor the UICC - ME interface.

27.22.3.4.2 Procedure

a) The ME is powered on.

b) After the ME has performed the PROFILE DOWNLOAD procedure, the USIM Simulator indicates that a Proactive UICC Command is pending with SW1 / SW2 of '91 0B'.

c) After the ME sends the FETCH command to the USIM Simulator, the USIM Simulator returns Proactive UICC Command 2.1: MORE TIME.

27.22.3.5 Test requirement

1) After step b) the ME shall send the FETCH command to the UICC.

2) After step c) the ME shall send the TERMINAL REPONSE command with command number "01", type of command "02" and command qualifier "00".

27.22.4 Proactive UICC commands

27.22.4.1 DISPLAY TEXT

27.22.4.1.1 DISPLAY TEXT (Normal)

27.22.4.1.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.1.2 Conformance requirements

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

3GPP TS 31.111 [15], clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.1.1.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.1.4 Method of test

27.22.4.1.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.1.4.2 Procedure

Expected Sequence 1.1 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.1.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
4	ME → USER	Display "Toolkit Test 1"	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.1	[Command performed successfully]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities
    Source device: UICC
    Destination device: Display
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Toolkit Test 1"

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 1.2 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, screen busy)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Set the ME screen to a display mode other than the normal stand-by display	The ME will be set to a mode so that normal priority text commands shall be rejected.
2	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.2.1	
3	ME → UICC	FETCH	
4	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.2.1	[Normal priority]
5	ME → USER	No change of the currently being used display.	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.2.1	[ME currently unable to process command - screen busy]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.2.1: same as 1.1.1

TERMINAL RESPONSE: DISPLAY TEXT 1.2.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC

Result

　　General Result:　　　　　ME currently unable to process command
　　Additional information:　Screen is busy

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	02	20
	01											

Expected Sequence 1.3 (DISPLAY TEXT, high priority, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.3.1	The ME screen is in a mode other than the normal stand by display.
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.3.1	[High priority]
4	ME → USER	Display "Toolkit Test 2"	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.3.1	
7	UICC → ME	PROACTIVE UICC SESSION ENDED	
8	USER → ME	Set the ME screen back to normal stand-by display	

PROACTIVE COMMAND: DISPLAY TEXT 1.3.1

Logically:

　　Command details
　　　　Command number:　　　　　1
　　　　Command type:　　　　　　DISPLAY TEXT
　　　　Command qualifier:　　　　high priority, wait for user to clear message
　　Device identities
　　　　Source device:　　　　　　UICC
　　　　Destination device:　　　　Display
　　Text String
　　　　Data coding scheme:　　　　unpacked, 8 bit data
　　　　Text:　　　　　　　　　　　"Toolkit Test 2"

Coding:

BER-TLV:	D0	1A	81	03	01	21	81	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	32								

TERMINAL RESPONSE: DISPLAY TEXT 1.3.1

Logically:

　　Command details
　　　　Command number:　　　　　1
　　　　Command type:　　　　　　DISPLAY TEXT
　　　　Command qualifier:　　　　high priority, wait for user to clear message
　　Device identities
　　　　Source device:　　　　　　ME
　　　　Destination device:　　　　UICC
　　Result
　　　　General Result:　　　　　Command performed successfully

Coding:

BER-TLV:	81	03	01	21	81	82	02	82	81	83	01	00

Expected Sequence 1.4 (DISPLAY TEXT, Packed, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.4.1	[Packed, SMS default alphabet]
4	ME → USER	Display "Toolkit Test 3"	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.4.1	[Command performed successfully]

PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text string
        Data coding scheme: packed, SMS default alphabet
        Text: "Toolkit Test 3"

Coding:

BER-TLV:	D0	19	81	03	01	21	80	82	02	81	02	8D
	0E	00	D4	F7	9B	BD	4E	D3	41	D4	F2	9C
	0E	9A	01									

TERMINAL RESPONSE: DISPLAY TEXT 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 1.5 (DISPLAY TEXT, Clear message after delay, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.5.1	

2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.5.1	[Clear message after a delay]
4	ME → USER	Display "Toolkit Test 4" and clear this message after a short delay	
5	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.5.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, clear message after a delay
    Device identities
        Source device: UICC
        Destination device: Display
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "Toolkit Test 4"

Coding:

BER-TLV:	D0	1A	81	03	01	21	00	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	34								

TERMINAL RESPONSE: DISPLAY TEXT 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, clear message after a delay
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	00	82	02	82	81	83	01	00

Expected Sequence 1.6 (DISPLAY TEXT, Text string with 160 bytes, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.6.1	[Text string with 160 bytes - maximum for non extension text]
4	ME → USER	Display "This command instructs the ME to display a text message. It allows the SIM to define the priority of that message, and the text string format. Two types of prio"	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.6.1	Command performed successfully

PROACTIVE COMMAND: DISPLAY TEXT 1.6.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: UICC
    Destination device: Display
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "This command instructs the ME to display a text message. It allows the SIM to define the priority of that message, and the text string format. Two types of prio"

Coding:

BER-TLV:	D0	81	AD	81	03	01	21	80	82	02	81	02
	8D	81	A1	04	54	68	69	73	20	63	6F	6D
	6D	61	6E	64	20	69	6E	73	74	72	75	63
	74	73	20	74	68	65	20	4D	45	20	74	6F
	20	64	69	73	70	6C	61	79	20	61	20	74
	65	78	74	20	6D	65	73	73	61	67	65	2E
	20	49	74	20	61	6C	6C	6F	77	73	20	74
	68	65	20	53	49	4D	20	74	6F	20	64	65
	66	69	6E	65	20	74	68	65	20	70	72	69
	6F	72	69	74	79	20	6F	66	20	74	68	61
	74	20	6D	65	73	73	61	67	65	2C	20	61
	6E	64	20	74	68	65	20	74	65	78	74	20
	73	74	72	69	6E	67	20	66	6F	72	6D	61
	74	2E	20	54	77	6F	20	74	79	70	65	73
	20	6F	66	20	70	72	69	6F				

TERMINAL RESPONSE: DISPLAY TEXT 1.6.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC
Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 1.7 (DISPLAY TEXT, Backward move in UICC session, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.7.1	
4	ME → USER	Display "<GO-BACKWARDS>"	
5	USER → ME	Indicate the need to go backwards in the proactive SIM application session	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.7.1	[Backward move in the proactive UICC session requested by the user]

PROACTIVE COMMAND: DISPLAY TEXT 1.7.1

Logically:

```
Command details
    Command number:        1
    Command type:          DISPLAY TEXT
    Command qualifier:     normal priority, wait for user to clear message
Device identities
    Source device:         UICC
    Destination device:    Display
Text string
    Data coding scheme:    unpacked, 8 bit data
    Text:                  "<GO-BACKWARDS>"
```

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	3C	47	4F	2D	42	41	43	4B	57	41
	52	44	53	3E								

TERMINAL RESPONSE: DISPLAY TEXT 1.7.1

Logically:

```
Command details
    Command number:        1
    Command type:          DISPLAY TEXT
    Command qualifier:     normal priority, wait for user to clear message
Device identities
    Source device:         ME
    Destination device:    UICC
Result
    General Result:        Backward move in the proactive UICC session requested by the user
```

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	11

Expected Sequence 1.8 (DISPLAY TEXT, session terminated by user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.8.1	
4	ME → USER	Display "<ABORT>"	
5	USER → ME	Indicate the need to end the proactive UICC application session	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.8.1	[Proactive UICC session terminated by the user]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.8.1

Logically:

```
    Command details
        Command number:        1
        Command type:          DISPLAY TEXT
        Command qualifier:     normal priority, wait for user to clear message
    Device identities
        Source device:         UICC
        Destination device:    Display
    Text string
        Data coding scheme:    unpacked, 8 bit data
        Text:                  "<ABORT>"
```

Coding:

BER-TLV:	D0	13	81	03	01	21	80	82	02	81	02	8D
	08	04	3C	41	42	4F	52	54	3E			

TERMINAL RESPONSE: DISPLAY TEXT 1.8.1

Logically:

```
    Command details
        Command number:        1
        Command type:          DISPLAY TEXT
        Command qualifier:     normal priority, wait for user to clear message
    Device identities
        Source device:         ME
        Destination device:    UICC
    Result
        General Result:        Proactive UICC session terminated by the user
```

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	10

Expected Sequence 1.9 (DISPLAY TEXT, icon and text to be displayed, no text string given, not understood by ME)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.9.1	Including icon identifier, icon shall be displayed together with the alpha text string, but no text string given
4	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.9.1	[Command data not understood by ME (clause 6.5.4)]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.9.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text string
        Contents: null data object
    Icon Identifier:
        Icon qualifier: icon is self-explanatory
        Icon Identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	0F	81	03	01	21	80	82	02	81	02	8D
	00	9E	02	00	01							

TERMINAL RESPONSE: DISPLAY TEXT 1.9.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	32

27.22.4.1.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.9.

27.22.4.1.2 DISPLAY TEXT (Support of "No response from user")

27.22.4.1.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.2.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.1.2.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.2.4 Method of test

27.22.4.1.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

ME Manufacturers shall set the "no response from user" period of time as declared in table A.2/1..

The USIM simulator shall be set to that period of time.

27.22.4.1.2.4.2 Procedure

Expected Sequence 2.1 (DISPLAY TEXT, no response from user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 2.1.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
4	ME → USER	Display "<TIME-OUT>"	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 2.1.1	[No response from user] within 5 s after the end of that defined period of time
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 2.1.1

Logically:

 Command details
  Command number: 1
  Command type: DISPLAY TEXT
  Command qualifier: normal priority, wait for user to clear message
 Device identities
  Source device: UICC
  Destination device: Display

Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "<TIME-OUT>"

Coding:

BER-TLV:	D0	16	81	03	01	21	80	82	02	81	02	8D
	0B	04	3C	54	49	4D	45	2D	4F	55	54	3E

TERMINAL RESPONSE: DISPLAY TEXT 2.1.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: No response from user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	12

27.22.4.1.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.1.3 DISPLAY TEXT (Display of extension text)

27.22.4.1.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.3.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.15.

27.22.4.1.3.3 Test purpose

To verify that the ME displays the extension text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.3.4 Method of test

27.22.4.1.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.3.4.2 Procedure

Expected Sequence 3.1 (DISPLAY TEXT, display of the extension text)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 3.1.1	[Text string with the maximum of 240 bytes]
4	ME → USER	Display "This command instructs the ME to display a text message, and/or an icon (see clause 6.5.4). It allows the SIM to define the priority of that message, and the text string format. Two types of priority are defined:- display normal priority text and/"	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 3.1.1	[Command performed successfully]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 3.1.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: UICC
    Destination device: Display
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "This command instructs the ME to display a text message and/or an icon (see clause 6.5.4). It allows the SIM to define the priority of that message, and the text string format. Two types of priority are defined:- display normal priority text and/"

Coding:

BER-TLV:	D0	81	FD	81	03	01	21	80	82	02	81	02
	8D	81	F1	04	54	68	69	73	20	63	6F	6D
	6D	61	6E	64	20	69	6E	73	74	72	75	63
	74	73	20	74	68	65	20	4D	45	20	74	6F
	20	64	69	73	70	6C	61	79	20	61	20	74
	65	78	74	20	6D	65	73	73	61	67	65	2C
	20	61	6E	64	2F	6F	72	20	61	6E	20	69
	63	6F	6E	20	28	73	65	65	20	36	2E	35
	2E	34	29	2E	20	49	74	20	61	6C	6C	6F
	77	73	20	74	68	65	20	53	49	4D	20	74
	6F	20	64	65	66	69	6E	65	20	74	68	65
	20	70	72	69	6f	72	69	74	79	20	6F	66
	20	74	68	61	74	20	6D	65	73	73	61	67
	65	2C	20	61	6E	64	20	74	68	65	20	74
	65	78	74	20	73	74	72	69	6E	67	20	66
	6F	72	6D	61	74	2E	2°	54	77	6F	20	74
	79	70	65	73	20	6F	66	20	70	72	69	6F
	72	69	74	79	20	61	72	65	20	64	65	66
	69	6E	65	64	3A	2D	20	64	69	73	70	6C
	61	79	20	6E	6F	72	6D	61	6C	20	70	72
	69	6F	72	69	74	79	20	74	65	78	74	20
	61	6E	64	2F								

TERMINAL RESPONSE: DISPLAY TEXT 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.3.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.1.4   DISPLAY TEXT (Sustained text)

27.22.4.1.4.1   Definition and applicability

See clause 3.2.2.

27.22.4.1.4.2   Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.15, clause 8.15..

27.22.4.1.4.3   Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, returns a successful result in the TERMINAL RESPONSE command send to the UICC and sustain the display beyond sending the TERMINAL response.

27.22.4.1.4.4   Method of test

27.22.4.1.4.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.4.4.2 Procedure

Expected Sequence 4.1 (DISPLAY TEXT, sustained text, unpacked data 8 bits, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 4.1.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
4	ME → USER	Display "Toolkit Test 1"	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.1.1	[Command performed successfully]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	
8	ME → USER	Display of "Toolkit Test 1" shall sustain	Text shall sustain until - a subsequent proactive command is received containing display data.

PROACTIVE COMMAND: DISPLAY TEXT 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Toolkit Test 1"
    Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 4.2 (DISPLAY TEXT, sustained text, clear message after delay, successful)

Step	Direction	MESSAGE / Action	Comments

1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 4.2.1	[Clear message after a delay]
4	ME → USER	Display "Toolkit Test 2"	
5	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.2.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	ME → USER	Display "Toolkit Test 2"	Text shall sustain until - the expiration of a short delay.

PROACTIVE COMMAND: DISPLAY TEXT 4.2.1

Logically:

        Command details
                Command number: 1
                Command type: DISPLAY TEXT
                Command qualifier: normal priority, clear message after a delay
        Device identities
                Source device: UICC
                Destination device: Display
        Text String
                Data coding scheme: unpacked, 8 bit data
                Text: "Toolkit Test 2"
        Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	00	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	32	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.2.1

Logically:

        Command details
                Command number: 1
                Command type: DISPLAY TEXT
                Command qualifier: normal priority, clear message after a delay
        Device identities
                Source device: ME
                Destination device: UICC
        Result
                General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	00	82	02	82	81	83	01	00

Expected Sequence 4.3 (DISPLAY TEXT, sustained text, wait for user MMI to clear, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 4.3.1	[wait for user to clear message]
4	ME → USER	Display "Toolkit Test 3"	
5	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.3.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	ME → USER	Display of "Toolkit Test 3"	Text shall sustain until - a user MMI action.
8	USER → ME	Clear message	

PROACTIVE COMMAND: DISPLAY TEXT 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Toolkit Test 3"
    Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	33	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 4.4 (DISPLAY TEXT, sustained text, wait for high priority event to clear, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 4.4.1	[wait for user to clear message]
4	ME → USER	Display "Toolkit Test 4"	
5	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.4.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	ME → USER	Display of "Toolkit Test 4"	Text shall sustain until - a higher priority event occurs.
8	USS → ME	INCOMING MOBILE TERMINATED CALL	

PROACTIVE COMMAND: DISPLAY TEXT 4.4.1

Logically:

> Command details
>> Command number: 1
>> Command type: DISPLAY TEXT
>> Command qualifier: normal priority, wait for user to clear message
> Device identities
>> Source device: UICC
>> Destination device: Display
> Text String
>> Data coding scheme: unpacked, 8 bit data
>> Text: "Toolkit Test 4"
> Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	34	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.4.1

Logically:

> Command details
>> Command number: 1
>> Command type: DISPLAY TEXT
>> Command qualifier: normal priority, wait for user to clear message
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.4.5   Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.4.

27.22.4.1.5 DISPLAY TEXT (Display of icons)

27.22.4.1.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.5.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.1.5.3 Test purpose

To verify that the ME displays the icons which are referred to in the contents of the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.5.4 Method of test

27.22.4.1.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME screen shall be in its normal stand-by display.

27.22.4.1.5.4.2 Procedure

Expected Sequence 5.1A (DISPLAY TEXT, display of basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display the BASIC-ICON	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.1.1A	[Command performed successfully]

PROACTIVE COMMAND: DISPLAY TEXT 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Basic Icon"
    Icon Identifier:
        Icon qualifier: icon is self-explanatory
        Icon Identifier: record 1 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0B	04	42	61	73	69	63	20	49	63	6F	6E
	9E	02	00	01								

TERMINAL RESPONSE: DISPLAY TEXT 5.1.1A

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 5.1B (DISPLAY TEXT, display of basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display "Basic Icon" without icon	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: DISPLAY TEXT 5.1.1B

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	04

Expected Sequence 5.2A (DISPLAY TEXT, display of colour icon, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.2.1	[COLOUR-ICON]
4	ME → USER	Display the COLOUR-ICON	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.2.1A	[Command performed successfully]

PROACTIVE COMMAND: DISPLAY TEXT 5.2.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Colour Icon"
    Icon Identifier:
        Icon qualifier: icon is self-explanatory
        Icon Identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1B	81	03	01	21	80	82	02	81	02	8D
	0C	04	43	6F	6C	6F	75	72	20	49	63	6F
	6E	9E	02	00	02							

TERMINAL RESPONSE: DISPLAY TEXT 5.2.1A

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 5.2B (DISPLAY TEXT, display of colour icon, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.2.1	[COLOUR-ICON]
4	ME → USER	Display "Colour Icon" without the icon	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.2.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: DISPLAY TEXT 5.2.1B

Logically:

```
Command details
        Command number:        1
        Command type:          DISPLAY TEXT
        Command qualifier:     normal priority, wait for user to clear message
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully, but requested icon could not be displayed
```

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	04

Expected Sequence 5.3A (DISPLAY TEXT, display of basic icon, not self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.3.1	[BASIC-ICON, not self-explanatory]
4	ME → USER	Display the BASIC-ICON And Display "Basic Icon"	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.3.1	[Command performed successfully]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 5.3.1

Logically:

```
Command details
        Command number:        1
        Command type:          DISPLAY TEXT
        Command qualifier:     normal priority, wait for user to clear message
Device identities
        Source device:         UICC
        Destination device:    Display
Text String
        Data coding scheme:    unpacked, 8 bit data
```

	Text:	"Basic Icon"
Icon Identifier:		
	Icon qualifier:	icon is not self-explanatory
	Icon Identifier:	record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0B	04	42	61	73	69	63	20	49	63	6F	6E
	9E	02	01	01								

TERMINAL RESPONSE: DISPLAY TEXT 5.3.1A

Logically:

Command details		
	Command number:	1
	Command type:	DISPLAY TEXT
	Command qualifier:	normal priority, wait for user to clear message
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 5.3B (DISPLAY TEXT, display of basic icon, not self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.3.1	[BASIC-ICON, not self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.3.1B	[Command performed successfully, but requested icon could not be displayed]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: DISPLAY TEXT 5.3.1B

Logically:

Command details		
	Command number:	1
	Command type:	DISPLAY TEXT
	Command qualifier:	normal priority, wait for user to clear message
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	04

27.22.4.1.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1A to 5.3B.

27.22.4.1.6 DISPLAY TEXT (UCS2 display in Cyrillic)

27.22.4.1.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.6.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

The ME shall support the UCS2 alphabet for the coding of the Cyrillic alphabet, as defined in the following technical specification: ISO/IEC 10646 [17].

27.22.4.1.6.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.6.4 Method of test

27.22.4.1.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.6.4.2 Procedure

Expected Sequence 6.1 (DISPLAY TEXT, UCS2 coded in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 6.1.1	[Normal priority, wait for user to clear message, UCS2 coded]
4	ME → USER	Display " ЗДРАВСТВУЙТЕ "	["Hello" in Russian]
5	USER → ME	Clear message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 6.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT

        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: UCS2 (16bit)
        Text: "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	24	81	03	01	21	80	82	02	81	02	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15										

TERMINAL RESPONSE: DISPLAY TEXT 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.1.7   DISPLAY TEXT (Variable Time out)

27.22.4.1.7.1   Definition and applicability

See clause 3.2.2.

27.22.4.1.7.2   Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31 and clause 8.43.

The ME shall support the variable time out for the display text.

27.22.4.1.7.3   Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.7.4   Method of test

27.22.4.1.7.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.7.4.2   Procedure

Expected Sequence 7.1 (DISPLAY TEXT, variable timeout of 10 seconds)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 7.1.1	[Normal priority, clear message after delay of 10 seconds]
4	ME → USER	Display "10 Second" for 10 seconds	
5	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 7.1.1	[No response from user]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 7.1.1

Logically:

  Command details
            Command number: 1
            Command type: DISPLAY TEXT
            Command qualifier: normal priority, clear message after delay
  Device identities
            Source device: UICC
            Destination device: Display
  Text String
            Data coding scheme: unpacked, 8 bit data
            Text: "10 Second"
  Duration
            Time unit: seconds
            Time interval: 10 units
Coding:

BER-TLV:	D0	19	81	03	01	21	80	82	02	81	02	8D
	0A	04	31	30	20	53	65	63	6F	6E	64	84
	02	01	0A									

TERMINAL RESPONSE: DISPLAY TEXT 7.1.1

Logically:

  Command details
            Command number: 1
            Command type: DISPLAY TEXT
            Command qualifier: normal priority, clear message after delay
  Device identities
            Source device: ME
            Destination device: UICC

Result

General Result: No response from user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	12

27.22.4.1.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.1.8 DISPLAY TEXT (Support of Text Attribute)

27.22.4.1.8.1 DISPLAY TEXT (Support of Text Attribute – Left Alignment)

27.22.4.1.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.1.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with Left Alignment for the display text.

27.22.4.1.8.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.1.4 Method of test

27.22.4.1.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.1.4.2 Procedure

Expected Sequence 8.1 (DISPLAY TEXT, Text Attribute with Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.1.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.1.1	

7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.1.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/5, no alignment change will take place.]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.1.1

Logically:

    Command details

        Command number: 1

        Command type: DISPLAY TEXT

        Command qualifier: normal priority, wait for user to clear message

    Device identities

        Source device: UICC

        Destination device: Display

    Text String

        Data coding scheme: unpacked, 8 bit data

        Text: "Text Attribute 1"

    Text Attribute

        Formatting position: 0

        Formatting length: 16

        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.1.2

Logically:

    Command details

        Command number: 1

        Command type: DISPLAY TEXT

        Command qualifier: normal priority, wait for user to clear message

    Device identities

        Source device: UICC

        Destination device: Display

    Text String

        Data coding scheme: unpacked, 8 bit data

        Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

TERMINAL RESPONSE: DISPLAY TEXT 8.1.1

Logically:

Command details

        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: ME
        Destination device: UICC

Result

        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.8.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.1.

27.22.4.1.8.2 DISPLAY TEXT (Support of Text Attribute – Center Alignment)

27.22.4.1.8.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.2.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with Centre Alignment for the display text.

27.22.4.1.8.2.3 Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.2.4 Method of test

27.22.4.1.8.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.2.4.2 Procedure

Expected Sequence 8.2 (DISPLAY TEXT, Text Attribute with Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.2.1	
2	ME → UICC	FETCH	

3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.2.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.2.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.2.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.2.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/5, no alignment change will take place.]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.2.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.2.1

Logically:

Command details

        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: UICC
        Destination device: Display

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Text Attribute 1"

Text Attribute

        Formatting position: 0
        Formatting length: 16
        Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	01	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.2.2

Logically:

Command details

        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: UICC
        Destination device: Display

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

TERMINAL RESPONSE: DISPLAY TEXT 8.2.1

Logically:

Command details

        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: ME
        Destination device: UICC

Result

        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.8.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.2.

27.22.4.1.8.3 DISPLAY TEXT (Support of Text Attribute – Right Alignment)

27.22.4.1.8.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.3.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with Right Alignment for the display text.

27.22.4.1.8.3.3 Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.3.4 Method of test

27.22.4.1.8.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.3.4.2 Procedure

Expected Sequence 8.3 (DISPLAY TEXT, Text Attribute with Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.3.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.3.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.3.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.3.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/5, no alignment change will take place.]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.3.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.3.1

Logically:

    Command details
                Command number: 1
                Command type: DISPLAY TEXT
                Command qualifier: normal priority, wait for user to clear message
    Device identities
                Source device: UICC
                Destination device: Display
    Text String
                Data coding scheme: unpacked, 8 bit data
                Text: "Text Attribute 1"
    Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	02	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.3.2

Logically:

    Command details
                Command number: 1
                Command type: DISPLAY TEXT
                Command qualifier: normal priority, wait for user to clear message
    Device identities

Source device: UICC
Destination device: Display

Text String

Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

TERMINAL RESPONSE: DISPLAY TEXT 8.3.1

Logically:

Command details

Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.8.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.3.

27.22.4.1.8.4 DISPLAY TEXT (Support of Text Attribute – Large Font Size)

27.22.4.1.8.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.4.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with large font size for the display text.

27.22.4.1.8.4.3 Test purpose

To verify that the ME displays the text formatted according to the large size font text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.4.4 Method of test

27.22.4.1.8.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.4.4.2   Procedure

Expected Sequence 8.4 (DISPLAY TEXT, Text Attribute with Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.4.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.4.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.4.1	[Normal priority, wait for user to clear message]
16	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
17	USER → ME	Clear Message	
18	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	
19	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.4.3	[Normal priority, wait for user to clear message]
22	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
23	USER → ME	Clear Message	
24	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.4.1

Logically:

Command details
　　　　Command number:　1
　　　　Command type:　DISPLAY TEXT
　　　　Command qualifier:　normal priority, wait for user to clear message
Device identities
　　　　Source device:　UICC
　　　　Destination device:　Display
Text String
　　　　Data coding scheme: unpacked, 8 bit data

Text: "Text Attribute 1"

Text Attribute

Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	04	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.4.1

Logically:

Command details

Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message
Device identities

Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.4.2

Logically:

Command details

Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message
Device identities

Source device: UICC
Destination device: Display
Text String

Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 2"
Text Attribute

Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font , Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.4.3

Logically:

Command details

        Command number: 1

        Command type: DISPLAY TEXT

        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: UICC

        Destination device: Display

Text String

        Data coding scheme: unpacked, 8 bit data

        Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.4.

27.22.4.1.8.5 DISPLAY TEXT (Support of Text Attribute – Small Font Size)

27.22.4.1.8.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.5.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with small font size for the display text.

27.22.4.1.8.5.3 Test purpose

To verify that the ME displays the text formatted according to the small size font text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.5.4 Method of test

27.22.4.1.8.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.5.4.2 Procedure

Expected Sequence 8.5 (DISPLAY TEXT, Text Attribute with Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.1	

2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.5.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.5.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted normal font size]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.5.1	[Normal priority, wait for user to clear message]
16	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
17	USER → ME	Clear Message	
18	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	
19	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.5.3	[Normal priority, wait for user to clear message]
22	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
23	USER → ME	Clear Message	
24	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.5.1

Logically:

Command details

    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message

Device identities

    Source device: UICC
    Destination device: Display

Text String

    Data coding scheme: unpacked, 8 bit data
    Text: "Text Attribute 1"

Text Attribute

    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	08	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.5.1

Logically:

Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.5.2

Logically:

Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
Device identities
        Source device: UICC
        Destination device: Display
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Text Attribute 2"
Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.5.3

Logically:

Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
Device identities
        Source device: UICC
        Destination device: Display
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D

	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 8.5.

27.22.4.1.8.6   DISPLAY TEXT (Support of Text Attribute – Bold On)

27.22.4.1.8.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.1.8.6.2   Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with bold on for the display text.

27.22.4.1.8.6.3   Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.6.4   Method of test

27.22.4.1.8.6.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.6.4.2   Procedure

Expected Sequence 8.6 (DISPLAY TEXT, Text Attribute with Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.6.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold text on
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.6.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with bold text off
11	USER → ME	Clear Message	

12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.6.1	[Normal priority, wait for user to clear message]
16	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold text on
17	USER → ME	Clear Message	
18	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	
19	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.6.3	[Normal priority, wait for user to clear message]
22	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with bold text off
23	USER → ME	Clear Message	
24	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.6.1

Logically:

Command details

    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message

Device identities

    Source device: UICC
    Destination device: Display

Text String

    Data coding scheme: unpacked, 8 bit data
    Text: "Text Attribute 1"

Text Attribute

    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	10	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.6.1

Logically:

Command details

    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message

Device identities

    Source device: ME
    Destination device: UICC

Result

    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.6.2

Logically:

Command details

    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message

Device identities

    Source device: UICC
    Destination device: Display

Text String

    Data coding scheme: unpacked, 8 bit data
    Text: "Text Attribute 2"

Text Attribute

    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.6.3

Logically:

Command details

    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message

Device identities

    Source device: UICC
    Destination device: Display

Text String

    Data coding scheme: unpacked, 8 bit data
    Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 8.6.

27.22.4.1.8.7   DISPLAY TEXT (Support of Text Attribute – Italic On)

27.22.4.1.8.7.1   Definition and applicability

See clause 3.2.2.

27.22.4.1.8.7.2   Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with italic on for the display text.

27.22.4.1.8.7.3   Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.7.4   Method of test

27.22.4.1.8.7.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.7.4.2   Procedure

Expected Sequence 8.7 (DISPLAY TEXT, Text Attribute with Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.7.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.7.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with italic off]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.7.1	[Normal priority, wait for user to clear message]
16	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
17	USER → ME	Clear Message	
18	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	
19	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.7.3	[Normal priority, wait for user to clear message]
22	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with italic off]

23	USER → ME	Clear Message	
24	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.7.1

Logically:

>   Command details
>>   Command number: 1
>>   Command type: DISPLAY TEXT
>>   Command qualifier: normal priority, wait for user to clear message
>   Device identities
>>   Source device: UICC
>>   Destination device: Display
>   Text String
>>   Data coding scheme: unpacked, 8 bit data
>>   Text: "Text Attribute 1"
>   Text Attribute
>>   Formatting position: 0
>>   Formatting length: 16
>>   Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
>>   Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	20	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.7.1

Logically:

>   Command details
>>   Command number: 1
>>   Command type: DISPLAY TEXT
>>   Command qualifier: normal priority, wait for user to clear message
>   Device identities
>>   Source device: ME
>>   Destination device: UICC
>   Result
>>   General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.7.2

Logically:

>   Command details
>>   Command number: 1
>>   Command type: DISPLAY TEXT
>>   Command qualifier: normal priority, wait for user to clear message
>   Device identities
>>   Source device: UICC
>>   Destination device: Display
>   Text String
>>   Data coding scheme: unpacked, 8 bit data

Text: "Text Attribute 2"

Text Attribute

Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.7.3

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: UICC
    Destination device: Display
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.7.

27.22.4.1.8.8 DISPLAY TEXT (Support of Text Attribute – Underline On)

27.22.4.1.8.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.8.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with underline on for the display text.

27.22.4.1.8.8.3 Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.8.4   Method of test

27.22.4.1.8.8.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.8.4.2   Procedure

Expected Sequence 8.8 (DISPLAY TEXT, Text Attribute with Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.8.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.8.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with underline off]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.8.1	[Normal priority, wait for user to clear message]
16	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
17	USER → ME	Clear Message	
18	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	
19	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.8.3	[Normal priority, wait for user to clear message]
22	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with underline off]
23	USER → ME	Clear Message	
24	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.8.1

Logically:

    Command details

                Command number: 1
                Command type: DISPLAY TEXT

Command qualifier: normal priority, wait for user to clear message
Device identities
Source device: UICC
Destination device: Display
Text String
Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 1"
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	40	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.8.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.8.2

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message
Device identities
Source device: UICC
Destination device: Display
Text String
Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 2"
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D

		11	04	54	65	78	74	20	41	74	74	72	69
		62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.8.3

Logically:

    Command details
              Command number: 1
              Command type: DISPLAY TEXT
              Command qualifier: normal priority, wait for user to clear message
    Device identities
              Source device: UICC
              Destination device: Display
    Text String
              Data coding scheme: unpacked, 8 bit data
              Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.8.

27.22.4.1.8.9 DISPLAY TEXT (Support of Text Attribute – Strikethrough On)

27.22.4.1.8.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.9.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with underline on for the display text.

27.22.4.1.8.9.3 Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.9.4 Method of test

27.22.4.1.8.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.9.4.2   Procedure

Expected Sequence 8.9 (DISPLAY TEXT, Text Attribute with Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.9.1	[Normal priority, wait for user to clear message]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.9.3	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with strikethrough off]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.9.1	[Normal priority, wait for user to clear message]
16	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
17	USER → ME	Clear Message	
18	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	
19	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.9.3	[Normal priority, wait for user to clear message]
22	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with strikethrough off]
23	USER → ME	Clear Message	
24	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.9.1

Logically:

Command details

    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message

Device identities

    Source device: UICC
    Destination device: Display

Text String

    Data coding scheme: unpacked, 8 bit data
    Text: "Text Attribute 1"

Text Attribute

    Formatting position: 0
    Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	80	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.9.1

Logically:

Command details
            Command number: 1
            Command type: DISPLAY TEXT
            Command qualifier: normal priority, wait for user to clear message
Device identities
            Source device: ME
            Destination device: UICC
Result
            General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.9.2

Logically:

Command details
            Command number: 1
            Command type: DISPLAY TEXT
            Command qualifier: normal priority, wait for user to clear message
Device identities
            Source device: UICC
            Destination device: Display
Text String
            Data coding scheme: unpacked, 8 bit data
            Text: "Text Attribute 2"
Text Attribute
            Formatting position: 0
            Formatting length: 16
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.9.3

Logically:

Command details
            Command number: 1
            Command type: DISPLAY TEXT

Command qualifier: normal priority, wait for user to clear message

Device identities

Source device: UICC

Destination device: Display

Text String

Data coding scheme: unpacked, 8 bit data

Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 8.9.

27.22.4.1.8.10   DISPLAY TEXT (Support of Text Attribute – Foreground and Background Colours)

27.22.4.1.8.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.1.8.10.2   Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with different foreground and background colours for the display text.

27.22.4.1.8.10.3   Test purpose

To verify that the ME displays the text formatted according to the foreground and background colour text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.10.4   Method of test

27.22.4.1.8.10.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.8.10.4.2   Procedure

Expected Sequence 8.10 (DISPLAY TEXT, Text Attribute with Foreground and Background Colours)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.10.1	[Normal priority, wait for user to clear message]

4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.10.1	
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.10.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 8.10.2	[Normal priority, wait for user to clear message]
10	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.10.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.10.1

Logically:

Command details

        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: UICC
        Destination device: Display

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Text Attribute 1"

Text Attribute

        Formatting position: 0
        Formatting length: 16
        Formatting mode Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	00	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.10.1

Logically:

Command details

        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: ME
        Destination device: UICC

Result

        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.10.2

Logically:

Command details

        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message

Device identities

        Source device: UICC
        Destination device: Display

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

27.22.4.1.8.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.10.

27.22.4.1.9 DISPLAY TEXT (UCS2 display in Chinese)

27.22.4.1.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.9.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

The ME shall support the UCS2 alphabet for the coding of the Chinese characters, as defined in the following technical specification: ISO/IEC 10646 [17].

27.22.4.1.9.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.9.4 Method of test

27.22.4.1.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.9.4.2 Procedure

Expected Sequence 9.1 (DISPLAY TEXT, UCS2 coded – Chinese characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 9.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 9.1.1	[Normal priority, wait for user to clear message, UCS2 coded]
4	ME → USER	Display "你好"	["Hello" in Chinese]
5	USER → ME	Clear message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 9.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 9.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: UCS2 (16bit)
        Text: "你好"

Coding:

BER-TLV:	D0	10	81	03	01	21	80	82	02	81	02	8D
	05	08	4F	60	59	7D						

TERMINAL RESPONSE: DISPLAY TEXT 9.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

27.22.4.1.10 DISPLAY TEXT (UCS2 display in Katakana)

27.22.4.1.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.10.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

The ME shall support the UCS2 alphabet for the coding of the Katakana characters, as defined in the following technical specification: ISO/IEC 10646 [17].

27.22.4.1.10.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.10.4 Method of test

27.22.4.1.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.1.10.4.2 Procedure

Expected Sequence 10.1 (DISPLAY TEXT, UCS2 coded – Katakana characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 10.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 10.1.1	[Normal priority, wait for user to clear message, UCS2 coded]
4	ME → USER	Display "80ﾙ"	["80Test" in Katakana]
5	USER → ME	Clear message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 10.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 10.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          DISPLAY TEXT
        Command qualifier:     normal priority,  wait for user to clear message
Device identities
        Source device:         UICC
        Destination device:    Display
Text String
        Data coding scheme:    UCS2 (16bit)
        Text:                  "80ﾙ"
```

Coding:

BER-TLV:	D0	12	81	03	01	21	80	82	02	81	02	8D
	07	08	00	38	00	30	30	EB				

TERMINAL RESPONSE: DISPLAY TEXT 10.1.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 10.1.

27.22.4.2   GET INKEY

27.22.4.2.1   GET INKEY(normal)

27.22.4.2.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.1.2   Conformance Requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.2.1.3   Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the single character entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.1.4   Method of test

27.22.4.2.1.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be set to a display other than the idle display.

27.22.4.2.1.4.2   Procedure

Expected Sequence 1.1 (GET INKEY, digits only for character, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 1.1.1	[digits only, no help info available]
4	ME → USER	Display "Enter "+""	
5	USER → ME	Enter the input "+" and completion	Text string coding in unpacked format
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 1.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+" "

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

TERMINAL RESPONSE: GET INKEY 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 1.2 (GET INKEY, digits only for character set, SMS default Alphabet for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 1.2.1	[digits only, no help info available]
4	ME → USER	Display "Enter "0""	
			Text string coding in packed format
5	USER → ME	Enter the input "0" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 1.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: SMS default alphabet
        Text: "Enter "0""

Coding:

BER-TLV:	D0	14	81	03	01	22	00	82	02	81	82	8D
	09	00	45	37	BD	2C	07	89	60	22		

TERMINAL RESPONSE: GET INKEY 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "0"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	30								

Expected Sequence 1.3 (GET INKEY, backward move)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 1.3.1	[digits only, no help information available]
4	ME → USER	Display "<GO-BACKWARDS>"	
			Text string coding in unpacked format
5	USER → ME	Backwards move MMI action	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 1.3.1	[backward move in the proactive UICC session requested by the user]

PROACTIVE COMMAND: GET INKEY 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "<GO-BACKWARDS>"

Coding:

BER-TLV:	D0	1A	81	03	01	22	00	82	02	81	82	8D
	0F	04	3C	47	4F	2D	42	41	43	4B	57	41
	52	44	53	3E								

TERMINAL RESPONSE: GET INKEY 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: backward move in the proactive UICC session requested by the user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	11

Expected Sequence 1.4 (GET INKEY, abort)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 1.4.1	[digits only, no help information available]
4	ME → USER	Display "<ABORT>"	Text string coding in unpacked format
5	USER → ME	Terminate the Proactive UICC session MMI action	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 1.4.1	[Proactive UICC session terminated by the user]

PROACTIVE COMMAND: GET INKEY 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "<ABORT>"

Coding:

BER-TLV:	D0	13	81	03	01	22	00	82	02	81	82	8D
	08	04	3C	41	42	4F	52	54	3E			

TERMINAL RESPONSE: GET INKEY 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	10

Expected Sequence 1.5 (GET INKEY, SMS default alphabet for character set, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 1.5.1	[characters from SMS default alphabet, no help info available]
4	ME → USER	Display "Enter "q""	Text string coding in unpacked format
5	USER → ME	Enter the input "q" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 1.5.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: SMS default alphabet, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "q""

Coding:

BER-TLV:	D0	15	81	03	01	22	01	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	71	22	

TERMINAL RESPONSE: GET INKEY 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: SMS default alphabet, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "q"

Coding:

BER-TLV:	81	03	01	22	01	82	02	82	81	83	01	00
	8D	02	04	71								

Expected Sequence 1.6 (GET INKEY, Max length for the Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 1.6.1	[digits only, no help info available]
4	ME → USER	Display "Enter "x". This command instructs the ME to display text, and to expect the user to enter a single character. Any response entered by the user shall be passed t"	160 characters Text string coding in unpacked format
5	USER → ME	Enter the input "x" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 1.6.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: SMS default alphabet, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "x". This command instructs the ME to display text, and to expect the user to enter a single character. Any response entered by the user shall be passed t"

Coding:

BER-TLV:	D0	81	AD	81	03	01	22	01	82	02	81	82
	8D	81	A1	04	45	6E	74	65	72	20	22	78
	22	2E	20	54	68	69	73	20	63	6F	6D	6D
	61	6E	64	20	69	6E	73	74	72	75	63	74
	73	20	74	68	65	20	4D	45	20	74	6F	20
	64	69	73	70	6C	61	79	20	74	65	78	74
	2C	20	61	6E	64	20	74	6F	20	65	78	70
	65	63	74	20	74	68	65	20	75	73	65	72
	20	74	6F	20	65	6E	74	65	72	20	61	20
	73	69	6E	67	6C	65	20	63	68	61	72	61
	63	74	65	72	2E	20	41	6E	79	20	72	65
	73	70	6F	6E	73	65	20	65	6E	74	65	72
	65	64	20	62	79	20	74	68	65	20	75	73
	65	72	20	73	68	61	6C	6C	20	62	65	20
	70	61	73	73	65	64	20	74				

TERMINAL RESPONSE: GET INKEY 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: SMS default alphabet, no help information available
    Device identities
        Source device: ME
        Destination device: UICC

Result
    General Result: Command performed successfully
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "x"

Coding:

BER-TLV:	81	03	01	22	01	82	02	82	81	83	01	00
	8D	02	04	78								

27.22.4.2.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.6.

27.22.4.2.2 GET INKEY (No response from User)

27.22.4.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.2.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.2.2.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

27.22.4.2.2.4 Method of test

27.22.4.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

ME Manufacturers shall set the "no response from user" period of time as declared in table A.2/2.

The USIM Simulator shall be set to that period of time.

27.22.4.2.2.4.2   Procedure

Expected Sequence 2.1 (GET INKEY, no response from the user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 2.1.1	[digits only, no help information available]
4	ME → USER	Display "<TIME-OUT>"	Text string coding in unpacked format
5	USER	Waiting and no completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 2.1.1	[No response from user] within 5 s after the end of that defined period of time
7	USER	Check the delay of TERMINAL RESPONSE is reasonable or not	

PROACTIVE COMMAND: GET INKEY 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
            Text: "<TIME-OUT>"

Coding:

BER-TLV:	D0	16	81	03	01	22	00	82	02	81	82	8D
	0B	04	3C	54	49	4D	45	2D	4F	55	54	3E

TERMINAL RESPONSE: GET INKEY 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: No response from user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	12

27.22.4.2.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.2.3   GET INKEY (UCS2 display in Cyrillic)

27.22.4.2.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.3.2   Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.3.3   Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.3.4   Method of test

27.22.4.2.3.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.2.3.4.2   Procedure

Expected Sequence 3.1 (GET INKEY, Text String coding in UCS2 Alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 3.1.1	[Digits only, no help information available]
4	ME → USER	Display " ЗДРАВСТВУЙТЕ "	Text string "Hello" in Russian coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 3.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String

Data coding scheme: 16 bit data UCS2 alphabet format
Text: " ЗДРАВСТВУЙТЕ "

Coding:

BER-TLV:	D0	24	81	03	01	22	00	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15										

TERMINAL RESPONSE: GET INKEY 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 3.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 3.2.1	[digits only, no help information available]
4	ME → USER	Display "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙ"	Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 3.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 3.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME

Text String
    Data coding scheme: 16 bit data UCS2 alphabet format
    Text: "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ
ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ
ЗДРАВСТВУЙТЕЗДРАВСТВУЙ"

Coding:

BER-TLV:	D0	81	99	81	03	01	22	00	82	02	81	82
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19

TERMINAL RESPONSE: GET INKEY 3.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1 to 3.2.

27.22.4.2.4 GET INKEY (UCS2 entry in Cyrillic)

27.22.4.2.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.4.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.4.3   Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.4.4   Method of test

27.22.4.2.4.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.2.4.4.2   Procedure

Expected Sequence 4.1 (GET INKEY, characters from UCS2 alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 4.1.1	[characters from UCS2 alphabet, no help information available]
4	ME → USER	Display "Enter"	Text string coding in unpacked format
5	USER → ME	Enter the input "Д" and completion	Cyrillic character, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 4.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: characters from UCS2 alphabet, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter"

Coding:

BER-TLV:	D0	11	81	03	01	22	03	82	02	81	82	8D
	06	04	45	6E	74	65	72					

TERMINAL RESPONSE: GET INKEY 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: characters from UCS2 alphabet, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String:
        Data coding scheme: 16 bit data UCS2 alphabet format
        Text: "Д"

Coding:

BER-TLV:	81	03	01	22	03	82	02	82	81	83	01	00
	8D	03	08	04	14							

27.22.4.2.4.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.2.5   GET INKEY ("Yes/No" Response)

27.22.4.2.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.5.2   Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.2.5.3   Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.5.4   Method of test

27.22.4.2.5.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.2.5.4.2 Procedure

Expected Sequence 5.1(GET INKEY, "Yes/No" Response for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 5.1.1	["Yes/No" Response, no help information available]
4	ME → USER	Display "Enter YES "	Text string coding in unpacked format
5	USER → ME	Choice "Yes" and Completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 5.1.1	[command performed successfully]. Check if it is in accordance with the user choice (value '01' in the Text String data object)
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 5.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 5.1.2	["Yes/No" Response, no help information available]
10	ME → USER	Display "Enter NO:"	Text string coding in unpacked format
11	USER → ME	Choice "No" and Completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 5.1.2	[command performed successfully]. Check if it is in accordance with the user choice (value '00' in the Text String data object)

PROACTIVE COMMAND: GET INKEY 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: "Yes/No" Response, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter YES"

Coding:

BER-TLV:	D0	15	81	03	01	22	04	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	59	45	53	

TERMINAL RESPONSE: GET INKEY 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: "Yes/No" Response, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: 01 (hex)

Coding:

BER-TLV:	81	03	01	22	04	82	02	82	81	83	01	00
	8D	02	04	01								

PROACTIVE COMMAND: GET INKEY 5.1.2:

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: "Yes/No" Response, no help information available
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter NO"

Coding:

BER-TLV:	D0	14	81	03	01	22	04	82	02	81	82	8D
	09	04	45	6E	74	65	72	20	4E	4F		

TERMINAL RESPONSE: GET INKEY 5.1.2

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: "Yes/No" Response, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: 00 (hex)

Coding:

BER-TLV:	81	03	01	22	04	82	02	82	81	83	01	00
	8D	02	04	00								

27.22.4.2.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.2.6 GET INKEY (display of Icon)

27.22.4.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.6.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.2.6.3 Test purpose

To verify that the ME displays the Icon contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.6.4 Method of test

27.22.4.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME screen shall be in its normal stand-by display.

27.22.4.2.6.4.2 Procedure

Expected Sequence 6.1A (GET INKEY, Basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.1.1	[BASIC-ICON self-explanatory for the Text string]
4	ME → USER	Display the BASIC-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.1.1A	Command performed successfully]

PROACTIVE COMMAND: GET INKEY 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "<NO-ICON>"
    Icon Identifier
        Icon qualifier: self-explanatory
        Icon identifier: 1 (number of record in EF$_{Img}$)

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	1E
	02	00	01									

TERMINAL RESPONSE: GET INKEY 6.1.1A

Logically:

```
Command details
        Command number:        1
        Command type:          GET INKEY
        Command qualifier:     digits (0-9, *, # and +) only, no help information available
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Text String
        Data coding scheme:    unpacked, 8 bit data
        Text:                  "+"
```

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.1B (GET INKEY, Basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.1.1	[BASIC-ICON self-explanatory for the Text string]
4	ME → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.1.1B

Logically:

```
Command details
        Command number:        1
        Command type:          GET INKEY
        Command qualifier:     digits (0-9, *, # and +) only, no help information available
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully but requested icon could not be displayed
Text String:
        Data coding scheme:    unpacked, 8 bit data
        Text:                  "+"
```

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

ETSI

Expected Sequence 6.2A (GET INKEY, Basic icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" and Display the BASIC-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.2.1A	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 6.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "<BASIC-ICON>"
Icon Identifier
    Icon qualifier: not self-explanatory
    Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1C	81	03	01	22	00	82	02	81	82	8D
	0D	04	3C	42	41	53	49	43	2D	49	43	4F
	4E	3E	1E	02	01	01						

TERMINAL RESPONSE: GET INKEY 6.2.1A

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.2B (GET INKEY, Basic icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.2.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.2.1B

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully but requested icon could not be displayed
    Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.3A (GET INKEY, Colour icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.3.1A	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 6.3.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC

Destination device: ME
Text String
Data coding scheme: unpacked, 8 bit data
Text: "<NO-ICON>"
Icon Identifier
Icon qualifier: self-explanatory
Icon identifier: 2 (number of record in EF$_{Img}$)

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	1E
	02	00	02									

TERMINAL RESPONSE: GET INKEY 6.3.1A

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.3B (GET INKEY, Colour icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display "<NO-ICON>"for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.3.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.3.1B

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
Source device: ME

	Destination device:	UICC

Result

	General Result:	Command performed successfully but requested icon could not be displayed

Text String:

	Data coding scheme:	unpacked, 8 bit data
	Text:	"+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.4A (GET INKEY, Colour icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" and Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.4.1A	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 6.4.1

Logically:

Command details		
	Command number:	1
	Command type:	GET INKEY
	Command qualifier:	digits (0-9, *, # and +) only, no help information available
Device identities		
	Source device:	UICC
	Destination device:	ME
Text String		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"<COLOUR-ICON>"
Icon Identifier		
	Icon qualifier:	not self-explanatory
	Icon identifier:	2 (number of record in EF$_{Img}$)

Coding:

BER-TLV:	D0	1D	81	03	01	22	00	82	02	81	82	8D
	0E	04	3C	43	4F	4C	4F	55	52	2D	49	43
	4F	4E	3E	1E	02	01	02					

TERMINAL RESPONSE: GET INKEY 6.4.1A

Logically:

Command details		
	Command number:	1
	Command type:	GET INKEY
	Command qualifier:	digits (0-9, *, # and +) only, no help information available
Device identities		
	Source device:	ME

        Destination device: UICC

Result

        General Result: Command performed successfully

Text String:

        Data coding scheme: unpacked, 8 bit data

        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.4B (GET INKEY, Colour icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 6.4.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.4.1B

Logically:

    Command details

        Command number: 1

        Command type: GET INKEY

        Command qualifier: digits (0-9, *, # and +) only, no help information available

    Device identities

        Source device: ME

        Destination device: UICC

    Result

        General Result: Command performed successfully but requested icon could not be displayed

    Text String:

        Data coding scheme: unpacked, 8 bit data

        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

27.22.4.2.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.1A to 6.4B.

27.22.4.2.7   GET INKEY (Help Information)

27.22.4.2.7.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.7.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.2.7.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.7.4 Method of test

27.22.4.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.7.4.2 Procedure

Expected Sequence 7.1 (GET INKEY, help information available)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 7.1.1	[digits only, help information available]
4	ME → USER	Display "Enter "+""	Text string coding in unpacked format
5	USER → ME	Press "help" key	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 7.1.1	[help info required]
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 7.1.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 7.1.1	
10	ME → USER	Display 'Help information'	Text string coded in unpacked format
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 7.1.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 7.1.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INKEY 7.1.2	[digits only, help information available]
16	ME → USER	Display "Enter "+""	Repetition of get inkey
17	USER → ME	Enter the input "+" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INKEY 7.1.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 7.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, help information available

Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter "+""

Coding:

BER-TLV:	D0	15	81	03	01	22	80	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

TERMINAL RESPONSE: GET INKEY 7.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Help information required by the user

Coding:

BER-TLV:	81	03	01	22	80	82	02	82	81	83	01	13

PROACTIVE COMMAND : DISPLAY TEXT 7.1.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: UICC
    Destination device: Display
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Help information"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	48	65	6C	70	20	69	6E	66	6F	72
	6D	61	74	69	6F	6E						

TERMINAL RESPONSE : DISPLAY TEXT 7.1.1

Logically:

Command details
    Command number: 1
    Command type: DISPLAY TEXT
    Command qualifier: normal priority, wait for user to clear message
Device identities
    Source device: ME
    Destination device: UICC

Result

      General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: GET INKEY 7.1.2

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""

Coding:

BER-TLV:	D0	15	81	03	01	22	80	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

TERMINAL RESPONSE: GET INKEY 7.1.2

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	80	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.7.5   Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.2.8   GET INKEY (Variable Time out)

27.22.4.2.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.8.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.2.8.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.8.4 Method of test

27.22.4.2.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.8.4.2 Procedure

Expected Sequence 8.1 (GET INKEY, variable time out of 10 seconds)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 8.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 8.1.1	
4	ME → USER	Display "Enter "+"" for 10 seconds	Text string coding in unpacked format
5	ME → UICC	TERMINAL RESPONSE: GET INKEY 8.1.1	[No response from user]

PROACTIVE COMMAND: GET INKEY 8.1.1

Logically:

Command details
　　　　　Command number:　1
　　　　　Command type:　GET INKEY
　　　　　Command qualifier:　digits (0-9, *, # and +) only
Device identities
　　　　　Source device:　　UICC
　　　　　Destination device:　ME
Text String
　　　　　Data coding scheme: unpacked, 8 bit data
　　　　　Text:　"Enter "+""
Duration
　　Time unit:　　　　　Seconds
　　Time interval:　　　10

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	84
	02	01	0A									

TERMINAL RESPONSE: GET INKEY 8.1.1

Logically:

Command details

           Command number: 1
           Command type: GET INKEY
           Command qualifier: digits (0-9, *, # and +) only

Device identities

           Source device: ME
           Destination device: UICC

Result

           General Result: No response from user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	12

27.22.4.2.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.1.

27.22.4.2.9 GET INKEY (Support of Text Attribute)

27.22.4.2.9.1 GET INKEY (Support of Text Attribute – Left Alignment)

27.22.4.2.9.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.1.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.1.4 Method of test

27.22.4.2.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.1.4.2   Procedure

Expected Sequence 9.1 (GET INKEY, Text attribute with Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.1.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with left alignment]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.1.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.1.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/6, no alignment change will take place]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.1.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.1.1

Logically:

    Command details
                Command number: 1
                Command type: GET INKEY
                Command qualifier: digits (0-9, *, # and +) only
    Device identities
                Source device: UICC
                Destination device: ME
    Text String
                Data coding scheme: unpacked, 8 bit data
                Text: "Enter "+""
    Text Attribute
                Formatting position: 0
                Formatting length: 9
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.1.1

Logically:

    Command details
                Command number: 1
                Command type: GET INKEY

Command qualifier: digits (0-9, *, # and +) only

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String:

Data coding scheme: unpacked, 8 bit data

Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.1.2

Logically:

Command details

Command number: 1

Command type: GET INKEY

Command qualifier: digits (0-9, *, # and +) only

Device identities

Source device: UICC

Destination device: ME

Text String

Data coding scheme: unpacked, 8 bit data

Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.1.2

Logically:

Command details

Command number: 1

Command type: GET INKEY

Command qualifier: digits (0-9, *, # and +) only

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String:

Data coding scheme: unpacked, 8 bit data

Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

27.22.4.2.9.2   GET INKEY (Support of Text Attribute – Center Alignment)

27.22.4.2.9.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.9.2.2   Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.2.3   Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.2.4   Method of test

27.22.4.2.9.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.2.4.2   Procedure

Expected Sequence 9.2 (GET INKEY, Text attribute with Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.2.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with center alignment]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.2.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.2.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.2.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/6, no alignment change will take place.]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.2.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.2.1

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: UICC
        Destination device: ME

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""

Text Attribute

        Formatting position: 0
        Formatting length: 9
        Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	01	B4							

TERMINAL RESPONSE: GET INKEY 9.2.1

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: ME
        Destination device: UICC

Result

        General Result: Command performed successfully

Text String:

        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.2.2

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: UICC
        Destination device: ME

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.2.2

Logically:

Command details

Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Text String:

Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.2.

27.22.4.2.9.3   GET INKEY (Support of Text Attribute – Right Alignment)

27.22.4.2.9.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.9.3.2   Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.3.3   Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.3.4   Method of test

27.22.4.2.9.3.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.3.4.2 Procedure

Expected Sequence 9.3 (GET INKEY, Text attribute with Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.3.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with right alignment]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.3.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.3.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.3.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/6, no alignment change will take place.]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.3.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.3.1

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: UICC
        Destination device: ME

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""

Text Attribute

        Formatting position: 0
        Formatting length: 9
        Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	02	B4							

TERMINAL RESPONSE: GET INKEY 9.3.1

Logically:

Command details

        Command number: 1
        Command type: GET INKEY

          Command qualifier: digits (0-9, *, # and +) only

Device identities

          Source device: ME
          Destination device: UICC

Result

          General Result: Command performed successfully

Text String:

          Data coding scheme: unpacked, 8 bit data
          Text: "+"

Coding

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.3.2

Logically:

Command details

          Command number: 1
          Command type: GET INKEY
          Command qualifier: digits (0-9, *, # and +) only

Device identities

          Source device: UICC
          Destination device: ME

Text String

          Data coding scheme: unpacked, 8 bit data
          Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.3.2

Logically:

Command details

          Command number: 1
          Command type: GET INKEY
          Command qualifier: digits (0-9, *, # and +) only

Device identities

          Source device: ME
          Destination device: UICC

Result

          General Result: Command performed successfully

Text String:

          Data coding scheme: unpacked, 8 bit data
          Text: "#"

Coding

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.3.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.3.

27.22.4.2.9.4 GET INKEY (Support of Text Attribute – Large Font Size)

27.22.4.2.9.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.4.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.4.3 Test purpose

To verify that the ME displays the text formatted according to the large font size text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.4.4 Method of test

27.22.4.2.9.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.4.4.2   Procedure

Expected Sequence 9.4 (GET INKEY, Text attribute with Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.4.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with large font size]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.4.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.4.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted with normal font size]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.4.2	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.4.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.4.1	
16	ME → USER	Display "Enter "+""	[Message shall be formatted with large font size]
17	USER → ME	Enter the input "+" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.4.1	[Command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.4.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.4.3	
22	ME → USER	Display "Enter "#""	[Message shall be formatted with normal font size]
23	USER → ME	Enter the input "#" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.4.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.4.1

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""
Text Attribute
        Formatting position: 0

Formatting length: 9
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	04	B4							

TERMINAL RESPONSE: GET INKEY 9.4.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.4.2

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter "#""
Text Attribute
    Formatting position: 0
    Formatting length: 9
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.4.2

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: ME
        Destination device: UICC

Result

        General Result: Command performed successfully

Text String:

        Data coding scheme: unpacked, 8 bit data
        Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.4.3

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: UICC
        Destination device: ME

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.4.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.4.

27.22.4.2.9.5   GET INKEY (Support of Text Attribute – Small Font Size)

27.22.4.2.9.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.9.5.2   Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.5.3   Test purpose

To verify that the ME displays the text formatted according to the small font size text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.5.4   Method of test

27.22.4.2.9.5.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.5.4.2   Procedure

Expected Sequence 9.5 (GET INKEY, Text attribute with Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.5.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with small font size]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.5.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.5.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted with normal font size]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.5.2	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.5.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.5.1	
16	ME → USER	Display "Enter "+""	[Message shall be formatted with small font size]
17	USER → ME	Enter the input "+" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.5.1	[Command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.5.3	
22	ME → USER	Display "Enter "#""	[Message shall be formatted with normal font size]
23	USER → ME	Enter the input "#" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.5.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.5.1

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""
Text Attribute
        Formatting position: 0
        Formatting length: 9
        Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
      Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	08	B4							

TERMINAL RESPONSE: GET INKEY 9.5.1

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully
Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.5.2

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data

Text: "Enter "#""

Text Attribute

Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.5.2

Logically:

Command details

Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only
Device identities

Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully
Text String:

Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.5.3

Logically:

Command details

Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only
Device identities

Source device: UICC
Destination device: ME
Text String

Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.5.

27.22.4.2.9.6   GET INKEY (Support of Text Attribute – Bold On)

27.22.4.2.9.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.9.6.2   Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.6.3   Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.6.4   Method of test

27.22.4.2.9.6.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.6.4.2 Procedure

Expected Sequence 9.6 (GET INKEY, Text attribute with Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.6.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with bold on]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.6.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.6.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted with bold off]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.6.2	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.6.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.6.1	
16	ME → USER	Display "Enter "+""	[Message shall be formatted with bold on]
17	USER → ME	Enter the input "+" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.6.1	[Command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.6.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.6.3	
22	ME → USER	Display "Enter "#""	[Message shall be formatted with bold off]
23	USER → ME	Enter the input "#" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.6.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.6.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter "+""
Text Attribute
    Formatting position: 0
    Formatting length: 9
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	10	B4							

TERMINAL RESPONSE: GET INKEY 9.6.1

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully
Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.6.2

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "#""
Text Attribute
        Formatting position: 0
        Formatting length: 9
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.6.2

Logically:

Command details

Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String:
Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.6.3

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only
Device identities
Source device: UICC
Destination device: ME
Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0

27.22.4.2.9.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.6.

27.22.4.2.9.7 GET INKEY (Support of Text Attribute – Italic On)

27.22.4.2.9.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.7.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.7.3 Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.7.4 Method of test

27.22.4.2.9.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.7.4.2 Procedure

Expected Sequence 9.7 (GET INKEY, Text attribute with Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.7.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with italic on]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.7.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.7.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.7.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted with italic off]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.7.2	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.7.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.7.1	
16	ME → USER	Display "Enter "+""	[Message shall be formatted with italic on]
17	USER → ME	Enter the input "+" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.7.1	[Command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.7.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.7.3	
22	ME → USER	Display "Enter "#""	[Message shall be formatted with italic off]
23	USER → ME	Enter the input "#" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.7.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.7.1

Logically:

    Command details

        Command number: 1

        Command type: GET INKEY

        Command qualifier: digits (0-9, *, # and +) only

    Device identities

Source device: UICC
Destination device: ME
Text String

Data coding scheme: unpacked, 8 bit data
Text: "Enter "+""
Text Attribute

Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	20	B4							

TERMINAL RESPONSE: GET INKEY 9.7.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.7.2

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter "#""
Text Attribute
    Formatting position: 0
    Formatting length: 9
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.7.2

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: ME
        Destination device: UICC

Result

        General Result: Command performed successfully

Text String:

        Data coding scheme: unpacked, 8 bit data
        Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.7.3

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: UICC
        Destination device: ME

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.7.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.7.

27.22.4.2.9.8   GET INKEY (Support of Text Attribute – Underline On)

27.22.4.2.9.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.9.8.2   Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.8.3 Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.8.4 Method of test

27.22.4.2.9.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.8.4.2 Procedure

Expected Sequence 9.8 (GET INKEY, Text attribute with Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.8.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with underline on]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.8.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.8.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.8.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted with underline off]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.8.2	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.8.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.8.1	
16	ME → USER	Display "Enter "+""	[Message shall be formatted with underline on]
17	USER → ME	Enter the input "+" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.8.1	[Command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.8.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.8.3	
22	ME → USER	Display "Enter "#""	[Message shall be formatted with underline off]
23	USER → ME	Enter the input "#" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.8.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.8.1

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""
Text Attribute
        Formatting position: 0

ETSI

				Formatting length:	9

Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	40	B4							

TERMINAL RESPONSE: GET INKEY 9.8.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.8.2

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter "#""
Text Attribute
    Formatting position: 0
    Formatting length: 9
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.8.2

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: ME
        Destination device: UICC

Result

        General Result: Command performed successfully

Text String:

        Data coding scheme: unpacked, 8 bit data
        Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.8.3

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: UICC
        Destination device: ME

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.8.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.8.

27.22.4.2.9.9   GET INKEY (Support of Text Attribute – Strikethrough On)

27.22.4.2.9.9.1   Definition and applicability

See clause 3.2.2.

27.22.4.2.9.9.2   Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.9.3   Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.9.4   Method of test

27.22.4.2.9.9.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.9.4.2   Procedure

Expected Sequence 9.9 (GET INKEY, Text attribute with Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.9.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with strikethrough on]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.9.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.9.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.9.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted with strikethrough off]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.9.2	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.9.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.9.1	
16	ME → USER	Display "Enter "+""	[Message shall be formatted with strikethrough on]
17	USER → ME	Enter the input "+" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.9.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.9.3	
22	ME → USER	Display "Enter "#""	[Message shall be formatted with strikethrough off]
23	USER → ME	Enter the input "#" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.9.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.9.1

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""
Text Attribute
        Formatting position: 0
        Formatting length: 9
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	80	B4							

TERMINAL RESPONSE: GET INKEY 9.9.1

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully
Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.9.2

Logically:

Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data

Text: "Enter "#""
Text Attribute

Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.9.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String:
Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.9.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only
Device identities
Source device: UICC
Destination device: ME
Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

PROACTIVE COMMAND: GET INKEY 9.9.3

Logically:

Command details
Command number: 1

	Command type:	GET INKEY
	Command qualifier:	digits (0-9, *, # and +) only
Device identities		
	Source device:	UICC
	Destination device:	ME
Text String		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.9.

27.22.4.2.9.10 GET INKEY (Support of Text Attribute – Foreground and Background Colour)

27.22.4.2.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.10.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.10.3 Test purpose

To verify that the ME displays the text formatted according to the foreground and background colour text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.10.4 Method of test

27.22.4.2.9.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.10.4.2   Procedure

Expected Sequence 9.10 (GET INKEY, Text attribute with Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.10.1	
4	ME → USER	Display "Enter "+""	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.10.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 9.10.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INKEY 9.10.2	
10	ME → USER	Display "Enter "#""	[Message shall be formatted with ME"s default foreground and background colour]
11	USER → ME	Enter the input "#" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INKEY 9.10.2	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 9.10.1

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

        Source device: UICC
        Destination device: ME

Text String

        Data coding scheme: unpacked, 8 bit data
        Text: "Enter "+""

Text Attribute

        Formatting position: 0
        Formatting length: 9
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.10.1

Logically:

Command details

        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Text String:

Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.10.2

Logically:

Command details

Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities

Source device: UICC
Destination device: ME

Text String

Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.10.2

Logically:

Command details

Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Text String:

Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.10.

27.22.4.2.10 GET INKEY (UCS2 display in Chinese)

27.22.4.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.10.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.10.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.10.4 Method of test

27.22.4.2.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.2.10.4.2 Procedure

Expected Sequence 10.1 (GET INKEY, Text String coding in UCS2 Alphabet - Chinese characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 10.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 10.1.1	[Digits only, no help information available]
4	ME → USER	Display "你好"	Text string "Hello" in Chinese coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 10.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 10.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME

Text String
    Data coding scheme: 16 bit data UCS2 alphabet format
    Text: "你好"

Coding:

BER-TLV:	D0	10	81	03	01	22	00	82	02	81	82	8D
	05	08	4F	60	59	7D						

TERMINAL RESPONSE: GET INKEY 10.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 10.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet - Chinese characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 10.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 10.2.1	[digits only, no help information available]
4	ME → USER	Display "你好你好你好你好你好你好你 好你好你好你好你好你好你好 你好你好你好你好你好你好你 好你好你好你好你好你好你好 你好你好你好你好你好你好你 好你好你好"	Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 10.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 10.2.1

Logically:

Command details
    Command number: 1

Command type:	GET INKEY	
Command qualifier:	digits (0-9, *, # and +) only, no help information available	
Device identities		
Source device:	UICC	
Destination device:	ME	
Text String		
Data coding scheme:	16 bit data UCS2 alphabet format	
Text:		

"你好"

Coding:

BER-TLV:	D0	81	99	81	03	01	22	00	82	02	81	82
	8D	81	8D	08	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D

TERMINAL RESPONSE: GET INKEY 10.2.1

Logically:

Command details		
Command number:	1	
Command type:	GET INKEY	
Command qualifier:	digits (0-9, *, # and +) only, no help information available	
Device identities		
Source device:	ME	
Destination device:	UICC	
Result		
General Result:	Command performed successfully	
Text String:		
Data coding scheme:	unpacked, 8 bit data	
Text:	"+"	

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 10.1 to 10.2.

27.22.4.2.11 GET INKEY (UCS2 entry in Chinese)

27.22.4.2.11.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.11.2   Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.11.3   Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.11.4   Method of test

27.22.4.2.11.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.2.11.4.2   Procedure

Expected Sequence 11.1 (GET INKEY, characters from UCS2 alphabet - Chinese characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 11.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 11.1.1	[characters from UCS2 alphabet, no help information available]
4	ME → USER	Display "Enter"	
5	USER → ME	Enter the input "好" and completion	Text string coding in unpacked format Chinese characters, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 11.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 11.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: characters from UCS2 alphabet, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter"

Coding:

BER-TLV:	D0	11	81	03	01	22	03	82	02	81	82	8D

06	04	45	6E	74	65	72					

TERMINAL RESPONSE: GET INKEY 11.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: characters from UCS2 alphabet, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String:
    Data coding scheme: 16 bit data UCS2 alphabet format
    Text: "好"

Coding:

BER-TLV:	81	03	01	22	03	82	02	82	81	83	01	00
	8D	03	08	59	7D							

27.22.4.2.11.5 Test requirement

The ME shall operate in the manner defined in expected sequence 11.1

27.22.4.2.12 GET INKEY (UCS2 display in Katakana)

27.22.4.2.12.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.12.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.12.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.12.4 Method of test

27.22.4.2.12.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.2.12.4.2   Procedure

Expected Sequence 12.1 (GET INKEY, Text String coding in UCS2 Alphabet - Katakana characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 12.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 12.1.1	[Digits only, no help information available]
4	ME → USER	Display "ル"	Text string "Test" in Katakana coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 12.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 12.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: 16 bit data UCS2 alphabet format
        Text: "ル"

Coding:

BER-TLV:	D0	0E	81	03	01	22	00	82	02	81	82	8D
	03	08	30	EB								

TERMINAL RESPONSE: GET INKEY 12.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String:
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

ETSI

Expected Sequence 12.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet - Katakana characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 12.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 12.2.1	[digits only, no help information available]
4	ME → USER	Display "ルルルルルルルルルルルル ルルルルルルルルルルルルル ルルルルルルルルルルルル ルルルルルルルルルルルル ルルルルルルルルルルルル"	Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 12.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 12.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: 16 bit data UCS2 alphabet format
        Text:

                               "ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル
                               ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル"

Coding:

BER-TLV:	D0	81	99	81	03	01	22	00	82	02	81	82
	8D	81	8D	08	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB

TERMINAL RESPONSE: GET INKEY 12.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String:

Data coding scheme: unpacked, 8 bit data

Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.12.5 Test requirement

The ME shall operate in the manner defined in expected sequence 12.1 to 12.2.

27.22.4.2.13 GET INKEY (UCS2 entry in Katakana)

27.22.4.2.13.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.13.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.13.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.13.4 Method of test

27.22.4.2.13.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.2.13.4.2   Procedure

Expected Sequence 13.1 (GET INKEY, characters from UCS2 alphabet - Katakana characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INKEY 13.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INKEY 13.1.1	[characters from UCS2 alphabet, no help information available]
4	ME → USER	Display "Enter"	
5	USER → ME	Enter the input "" and completion	Text string coding in unpacked format Katakana character, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INKEY 13.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 13.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: characters from UCS2 alphabet, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter"

Coding:

BER-TLV:	D0	11	81	03	01	22	03	82	02	81	82	8D
	06	04	45	6E	74	65	72					

TERMINAL RESPONSE: GET INKEY 13.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INKEY
        Command qualifier: characters from UCS2 alphabet, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String:
        Data coding scheme: 16 bit data UCS2 alphabet format
        Text: "ノレ"

Coding:

BER-TLV:	81	03	01	22	03	82	02	82	81	83	01	00
	8D	03	08	30	EB							

27.22.4.2.13.5 Test requirement

The ME shall operate in the manner defined in expected sequence 13.1

27.22.4.3. GET INPUT

27.22.4.3.1 GET INPUT (normal)

27.22.4.3.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.1.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.3.1.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.1.4 Method of test

27.22.4.3.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.1.4.2 Procedure

Expected Sequence 1.1 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help info available]
4	ME → USER	Display "Enter 12345"	Range of expected length is 5-5. Text string coding in unpacked format
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.1.1

Logically:

    Command details
            Command number: 1
            Command type: GET INPUT

	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities		
	Source device:	UICC
	Destination device:	ME
Text String		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"Enter 12345"
Response length		
	Minimum length:	5
	Maximum length:	5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 1.1.1

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

Expected Sequence 1.2 (GET INPUT, digits only, SMS default alphabet, ME to echo text, packing SMS Point-to-point required by ME)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.2.1	[digits only, SMS default alphabet, ME to echo text, packing required, no help information available]
4	ME → USER	Display "Enter 67*#+""	Range of expected length is 5-5 Text string coding in packed format
5	USER → ME	Enter the input "67*#+"" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.2.1

Logically:

```
Command details
    Command number:         1
    Command type:           GET INPUT
    Command qualifier:      digits (0-9, *, # and +) only, SMS default alphabet, input in packed SMS format, ME
                            to echo text, no help information available
Device identities
    Source device:          UICC
    Destination device:     ME
Text String
    Data coding scheme:     SMS default alphabet
    Text:                   "Enter 67*#+""
Response length
    Minimum length:         5
    Maximum length:         5
```

Coding:

BER-TLV:	D0	1A	81	03	01	23	08	82	02	81	82	8D
	0B	00	45	37	BD	2C	07	D9	6E	AA	D1	0A
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 1.2.1

Logically:

```
Command details
    Command number:         1
    Command type:           GET INPUT
    Command qualifier:      digits (0-9, *, # and +) only, SMS default alphabet, input in packed SMS format, ME
                            to echo text, no help information available
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command performed successfully
Text string
    Data coding scheme:     packed SMS format
    Text:                   "67*#+""
```

Coding:

BER-TLV:	81	03	01	23	08	82	02	82	81	83	01	00
	8D	06	00	B6	9B	6A	B4	02				

Expected Sequence 1.3 (GET INPUT, character set, SMS Default Alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.3.1	[character set, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter AbCdE"	Range of expected length is 5-5. Text string coding in unpacked format
5	USER → ME	Enter the input "AbCdE" and completion	The ME may echo the input
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.3.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.3.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: Character set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter AbCdE"
Response length
    Minimum length: 5
    Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	01	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	41	62	43	64
	45	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 1.3.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: Character set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "AbCdE"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	41	62	43	64	45				

Expected Sequence 1.4 (GET INPUT, digits only, SMS default alphabet, ME to hide text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.4.1	[digits only, SMS default alphabet, ME to hide text, packing not required, no help information available]
4	ME → USER	Display "Password 1<SEND>2345678"	Range of expected length is 4-8. Text string coding in unpacked format
5	USER → ME	Enter the input "2345678" and completion	User"s input not to be revealed at any time, optionally indication of key entries such as by displaying "*"
6	ME → USER	Input not revealed	optionally indication of key entries such as by displaying "*"
7	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.4.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to hide text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Password 1<SEND>2345678"
    Response length
        Minimum length: 4
        Maximum length: 8

Coding:

BER-TLV:	D0	27	81	03	01	23	04	82	02	81	82	8D
	18	04	50	61	73	73	77	6F	72	64	20	31
	3C	53	45	4E	44	3E	32	33	34	35	36	37
	38	91	02	04	08							

TERMINAL RESPONSE: GET INPUT 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to hide text, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "2345678"

Coding:

BER-TLV:	81	03	01	23	04	82	02	82	81	83	01	00
	8D	08	04	32	33	34	35	36	37	38		

Expected Sequence 1.5 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.5.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter 1..9,0..9,0(1)"	Range of expected length is 1-20. Text string coding in unpacked format
5	USER → ME	Completion without input	
6	ME → USER	The ME MMI takes action to manage the entry of correct numbers of characters.	
7	USER → ME	Enter "12345678901234567890" and completion	
8	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.5.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 1..9,0..9,0(1)"
    Response length
        Minimum length: 1
        Maximum length: 20

Coding:

BER-TLV:	D0	24	81	03	01	23	00	82	02	81	82	8D
	15	04	45	6E	74	65	72	20	31	2E	2E	39
	2C	30	2E	2E	39	2C	30	28	31	29	91	02
	01	14										

TERMINAL RESPONSE: GET INPUT 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities

	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"12345678901234567890"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	15	04	31	32	33	34	35	36	37	38	39
	30	31	32	33	34	35	36	37	38	39	30	

Expected Sequence 1.6 (GET INPUT, backwards move)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.6.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<GO-BACKWARDS>"	Range of expected length is 0-8. Text string coding in unpacked format
5	USER → ME	Backwards move MMI action	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.6.1	[backward move in the proactive UICC session requested by the user]

PROACTIVE COMMAND: GET INPUT 1.6.1

Logically:

	Command details	
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities		
	Source device:	UICC
	Destination device:	ME
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"<GO-BACKWARDS>"
Response length		
	Minimum length:	0
	Maximum length:	8

Coding:

BER-TLV:	D0	1E	81	03	01	23	00	82	02	81	82	8D
	0F	04	3C	47	4F	2D	42	41	43	4B	57	41
	52	44	53	3E	91	02	00	08				

TERMINAL RESPONSE: GET INPUT 1.6.1

Logically:

	Command details	
	Command number:	1
	Command type:	GET INPUT

Command qualifier:		digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available		
Device identities				
	Source device:	ME		
	Destination device:	UICC		
Result				
	General Result:	backward move in the proactive UICC session requested by the user		

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	11

Expected Sequence 1.7 (GET INPUT, abort)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.7.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<ABORT>"	Range if expected length is 0-8. Text string coding in unpacked format
5	USER → ME	Terminate the Proactive UICC session MMI action	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.7.1	[Proactive UICC session terminated by the user]

PROACTIVE COMMAND: GET INPUT 1.7.1

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities		
	Source device:	UICC
	Destination device:	ME
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"<ABORT>"
Response length		
	Minimum length:	0
	Maximum length:	8

Coding:

BER-TLV:	D0	17	81	03	01	23	00	82	02	81	82	8D
	08	04	3C	41	42	4F	52	54	3E	91	02	00
	08											

TERMINAL RESPONSE: GET INPUT 1.7.1

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	10

Expected Sequence 1.8 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.8.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "***1111111111###***2222222 222###***3333333333###***44 44444444###***5555555555## #***6666666666###***7777777 777###***8888888888###***99 99999999###***0000000000## #"	Range of length expected is 160-160. Text string coding in unpacked format
5	USER → ME	Enter the input "***1111111111###***2222222 222###***3333333333###***44 44444444###***5555555555## #***6666666666###***7777777 777###***8888888888###***99 99999999###***0000000000## #" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.8.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.8.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: UICC
    Destination device: ME
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "***1111111111###***2222222222###***3333333333###***4444444444###*** 5555555555###***6666666666###***7777777777###***8888888888###***9999 999999###***0000000000###"
Response length
    Minimum length: 160
    Maximum length: 160

Coding:

BER-TLV:	D0	81	B1	81	03	01	23	00	82	02	81	82
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23	91	02	A0	A0

TERMINAL RESPONSE: GET INPUT 1.8.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "***1111111111###***2222222222###***
3333333333###***4444444444###
5555555555###6666666666###
7777777777###8888888888###
9999999999###0000000000###"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23				

Expected Sequence 1.9 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.9.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<SEND>"	Range of expected length is 0-1. Text string coding in unpacked format
5	USER → ME	Completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.9.1A Or TERMINAL RESPONSE: GET INPUT 1.9.1B	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.9.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "<SEND>"
    Response length
        Minimum length: 0
        Maximum length: 1

Coding:

BER-TLV:	D0	16	81	03	01	23	00	82	02	81	82	8D
	07	04	3C	53	45	4E	44	3E	91	02	00	01

TERMINAL RESPONSE: GET INPUT 1.9.1A

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: empty string

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	01	04									

TERMINAL RESPONSE: GET INPUT 1.9.1B

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                               echo text, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Contents: Null data object

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	00										

Expected Sequence 1.10 (GET INPUT, null length for the text string, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 1.10.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help info available]
4	ME → USER	Request for input	Range of expected length is 1-5. Null Text string
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 1.10.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.10.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                               echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text string
        Text: length null (00).
    Response length
        Minimum length: 1
        Maximum length: 5

Coding:

BER-TLV:	D0	0F	81	03	01	23	00	82	02	81	82	8D
	00	91	02	01	05							

TERMINAL RESPONSE: GET INPUT 1.10.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

27.22.4.3.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.10.

27.22.4.3.2 GET INPUT (No response from User)

27.22.4.3.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.2.2 Conformance requirement

The ME shall support the GET INPUT command as defined in the following technical specifications :

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.3.2.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

27.22.4.3.2.4 Method of test

27.22.4.3.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

ME Manufacturers shall set the "no response from user" period of time as declared in table A.2/3.

The USIM Simulator shall be set to that period of time.

27.22.4.3.2.4.2 Procedure

Expected Sequence 2.1 (GET INPUT, no response from the user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 2.1	[digits only, SMS default alphabet ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<TIME-OUT>"	Range of expected length is 0-10 Text string coding in unpacked format
5	USER	Waiting and no completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 2.1.1	[No response from user] within 5 s after the end of that defined period of time

PROACTIVE COMMAND: GET INPUT 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "<TIME-OUT>"
    Response length
        Minimum length: 0
        Maximum length: 10

Coding:

BER-TLV:	D0	1A	81	03	01	23	00	82	02	81	82	8D
	0B	04	3C	54	49	4D	45	2D	4F	55	54	3E
	91	02	00	0A								

TERMINAL RESPONSE: GET INPUT 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: No response from user

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	12

27.22.4.3.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.3.3 GET INPUT (UCS2 display in Cyrillic)

27.22.4.3.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.3.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.3.3.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.3.4 Method of test

27.22.4.3.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.3.3.4.2 Procedure

Expected Sequence 3.1 (GET INPUT, text string coding in UCS2 in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 3.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display " ЗДРАВСТВУЙТЕ "	Range of expected length is 5-5. Text string "Hello" in Russian coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 3.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 3.1.1

Logically:

Command details
 Command number: 1
 Command type: GET INPUT
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
 Source device: UICC
 Destination device: ME
Text String
 Data coding scheme: 16 bit data UCS2 alphabet format
 Text: " ЗДРАВСТВУЙТЕ "
Response length
 Minimum length: 5
 Maximum length: 5

Coding:

BER-TLV:	D0	28	81	03	01	23	01	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	91	02	05	05						

TERMINAL RESPONSE: GET INPUT 3.1.1

Logically:

Command details
 Command number: 1
 Command type: GET INPUT
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
 Source device: ME
 Destination device: UICC
Result
 General Result: Command performed successfully
Text string
 Data coding scheme: unpacked, 8 bit data
 Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

Expected Sequence 3.2 (GET INPUT, max length for the text string coding in UCS2 in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 3.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ"	Range of expected length is 5-5. Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 3.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 3.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: 16 bit data UCS2 alphabet format
        Text: "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ"
    Response length
        Minimum length: 5
        Maximum length: 5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	01	82	02	81	82
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 3.2.1

Logically:

> Command details
>> Command number: 1
>> Command type: GET INPUT
>> Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully
> Text string
>> Data coding scheme: unpacked, 8 bit data
>> Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

27.22.4.3.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.2.

27.22.4.3.4 GET INPUT (UCS2 entry in Cyrillic)

27.22.4.3.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.4.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [17].

27.22.4.3.4.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.4.4 Method of test

27.22.4.3.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.3.4.4.2 Procedure

Expected Sequence 4.1 (GET INPUT, character set from UCS2 alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 4.1.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is 12-12. Text string coding in unpacked format
5	USER → ME	Enter the input "ЗДРАВСТВУЙТЕ " and completion	"Hello" in Russian, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 4.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter Hello"
    Response length
        Minimum length: 12
        Maximum length: 12

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	0C	0C							

TERMINAL RESPONSE: GET INPUT 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: UCS2
        Text: "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	19	08	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15									

Expected Sequence 4.2 (GET INPUT, character set from UCS2 alphabet in Cyrillic, Max length for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 4.2.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is no limit. Text string coding in unpacked format
5	USER → ME	Enter the input "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ and completion	Input length 70 characters, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 4.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 4.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help
                               information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter Hello"
    Response length
        Minimum length: 5
        Maximum length: No maximum length requirement

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	05	FF							

TERMINAL RESPONSE: GET INPUT 4.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help
                               information available
    Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully
Data coding scheme: UCS2
Text: "ЗДРАВСТВУЙТЕ…ЗДРАВСТВУЙ" (70 chars)

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19

27.22.4.3.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.2.

27.22.4.3.5 GET INPUT (default text)

27.22.4.3.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.5.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.23.

27.22.4.3.5.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.5.4 Method of test

27.22.4.3.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.3.5.4.2 Procedure

Expected Sequence 5.1(GET INPUT, default text for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 5.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter 12345". Display "12345"	Range of expected length is 5-5. Text string coding in unpacked format. Default text coding in unpacked format
5	USER → ME	Completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 5.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 5.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 12345"
Response length
    Minimum length: 5
    Maximum length: 5
Default Text
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	D0	23	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	17	06	04	31	32	33	34
	35											

TERMINAL RESPONSE: GET INPUT 5.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data

Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

Expected Sequence 5.2 (GET INPUT, default text for the input with max length, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 5.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter:" Display default text input: "***1111111111###***22222222 22###***3333333333###***4444 444444###***5555555555###*** 6666666666###***7777777777# ##***8888888888###***9999999 999###***0000000000###"	Range of expected length is 160-160. Text string coding in unpacked format. Default text length 160 bytes coding in unpacked format
5	USER → ME	Completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 5.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 5.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                                 echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter:"
    Response length
        Minimum length: 160
        Maximum length: 160
    Default Text
        Data coding scheme: unpacked, 8 bit data
        Text: "***1111111111###***2222222222###***3333333333###***4444444444###***
                                  5555555555###***6666666666###***7777777777###***8888888888###***9999
                                  999999###***0000000000###"

Coding:

BER-TLV:	D0	81	BA	81	03	01	23	00	82	02	81	82
	8D	07	04	45	6E	74	65	72	3A	91	02	A0
	A0	17	81	A1	04	2A	2A	2A	31	31	31	31
	31	31	31	31	31	31	23	23	23	2A	2A	2A
	32	32	32	32	32	32	32	32	32	32	23	23
	23	2A	2A	2A	33	33	33	33	33	33	33	33
	33	33	23	23	23	2A	2A	2A	34	34	34	34
	34	34	34	34	34	34	23	23	23	2A	2A	2A
	35	35	35	35	35	35	35	35	35	35	23	23
	23	2A	2A	2A	36	36	36	36	36	36	36	36
	36	36	23	23	23	2A	2A	2A	37	37	37	37
	37	37	37	37	37	37	23	23	23	2A	2A	2A
	38	38	38	38	38	38	38	38	38	38	23	23
	23	2A	2A	2A	39	39	39	39	39	39	39	39
	39	39	23	23	23	2A	2A	2A	30	30	30	30
	30	30	30	30	30	30	23	23	23			

TERMINAL RESPONSE: GET INPUT 5.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "***1111111111###***2222222222###***3333333333###***4444444444###*** 5555555555###***6666666666###***7777777777###***8888888888###***9999 999999###***0000000000###"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23				

27.22.4.3.5.5   Test requirement

The ME shall operate in the manner defined in expected sequences 5.1 to 5.2.

27.22.4.3.6 GET INPUT (display of Icon)

27.22.4.3.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.6.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.5.4, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 12.31.

27.22.4.3.6.3 Test purpose

To verify that the ME displays the Icon contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.6.4 Method of test

27.22.4.3.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME screen shall be in its normal stand-by display.

27.22.4.3.6.4.2 Procedure

Expected Sequence 6.1A (GET INPUT, Basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.1.1	[BASIC-ICON self-explanatory for the Text string]
4	ME → USER	Display the BASIC-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.1.1A	Command performed successfully]

PROACTIVE COMMAND: GET INPUT 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "<NO-ICON>"

Response length
    Minimum length: 0
    Maximum length: 10
Icon Identifier
    Icon qualifier: self-explanatory
    Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1D	81	03	01	23	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	91
	02	00	0A	1E	02	00	01					

TERMINAL RESPONSE: GET INPUT 6.1.1A

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.1B (GET INPUT, Basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.1.1	[BASIC-ICON self-explanatory for the Text string]
4	ME → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INPUT 6.1.1B

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result

General Result: Command performed successfully but requested icon could not be displayed
Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.2A (GET INPUT, Basic icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" and Display the BASIC-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.2.1A	[Command performed successfully]

PROACTIVE COMMAND: GET INPUT 6.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "<BASIC-ICON>"
Response length
    Minimum length: 0
    Maximum length: 10
Icon Identifier
    Icon qualifier: not self-explanatory
    Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	20	81	03	01	23	00	82	02	81	82	8D
	0D	04	3C	42	41	53	49	43	2D	49	43	4F
	4E	3E	91	02	00	0A	1E	02	01	01		

TERMINAL RESPONSE: GET INPUT 6.2.1A

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities

	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.2B (GET INPUT, Basic icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.2.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INPUT 6.2.1B

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, no help information available
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully but requested icon could not be displayed
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.3A (GET INPUT, Colour icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.3.1A	[Command performed successfully]

PROACTIVE COMMAND: GET INPUT 6.3.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "<NO-ICON>"
    Response length
        Minimum length: 0
        Maximum length: 10
    Icon Identifier
        Icon qualifier: self-explanatory
        Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1D	81	03	01	23	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	91
	02	00	0A	1E	02	00	02					

TERMINAL RESPONSE: GET INPUT 6.3.1A

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

ETSI

Expected Sequence 6.3B (GET INPUT, Colour icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.3.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INPUT 6.3.1B

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully but requested icon could not be displayed
Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.4A (GET INPUT, Colour icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" and Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.4.1A	[Command performed successfully]

PROACTIVE COMMAND: GET INPUT 6.4.1

Logically:

Command details
Command number: 1
Command type: GET INPUT

	Command qualifier:	digits (0-9, *, # and +) only, no help information available
Device identities		
	Source device:	UICC
	Destination device:	ME
Text String		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"<COLOUR-ICON>"
Response length		
	Minimum length:	0
	Maximum length:	10
Icon Identifier		
	Icon qualifier:	not self-explanatory
	Icon identifier:	2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0E	04	3C	43	4F	4C	4F	55	52	2D	49	43
	4F	4E	3E	91	02	00	0A	1E	02	01	02	

TERMINAL RESPONSE: GET INPUT 6.4.1A

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, no help information available
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.4B (GET INPUT, Colour icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 6.4.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INPUT 6.4.1B

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully but requested icon could not be displayed
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

27.22.4.3.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 6.1A to 6.4B.

27.22.4.3.7 GET INPUT (Help Information)

27.22.4.3.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.7.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.3.7.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns a 'help information required by the user' result value in the TERMINAL RESPONSE command sent to the UICC if the user has indicated the need to get help information.

27.22.4.3.7.4 Method of test

27.22.4.3.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.7.4.2 Procedure

Expected Sequence 7.1 (GET INPUT, digits only, ME to echo text, ME supporting 8 bit data Message, help information available)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 7.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, help information available]
4	ME → USER	Display "Enter 12345"	Range of expected length is 5-5. Text string coding in unpacked format
5	USER → ME	Press "help"	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 7.1.1	[command performed, help information required by user]

PROACTIVE COMMAND: GET INPUT 7.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, help information available
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 12345"
Response length
    Minimum length: 5
    Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	80	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 7.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Help information required by the user

Coding:

BER-TLV:	81	03	01	23	80	82	02	82	81	83	01	13

27.22.4.3.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.3.8 GET INPUT (Support of Text Attribute)

27.22.4.3.8.1 GET INPUT (Support of Text Attribute – Left Alignment)

27.22.4.3.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.1.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.1.4 Method of test

27.22.4.3.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.1.4.2 Procedure

Expected Sequence 8.1 (GET INPUT, Text attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5. Text string coding in unpacked format. Message shall be formatted with left alignment]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.1.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.1.2	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/7, no alignment change will take place.]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.1.2	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 12345"
    Response length
        Minimum length: 5
        Maximum length: 5
    Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.1.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.1.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 22222"
Response length
    Minimum length: 5
    Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.1.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.1.

27.22.4.3.8.2 GET INPUT (Support of Text Attribute – Center Alignment)

27.22.4.3.8.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.2.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.2.3 Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.2.4 Method of test

27.22.4.3.8.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.2.4.2   Procedure

Expected Sequence 8.2 (GET INPUT, Text attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with center alignment]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.2.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.2.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.2.2	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/7, no alignment change will take place.]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.2.2	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 12345"
    Response length
        Minimum length: 5
        Maximum length: 5
    Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	01	B4	

TERMINAL RESPONSE: GET INPUT 8.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.2.2

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 22222"
    Response length
        Minimum length: 5
        Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.2.2

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.2.

27.22.4.3.8.3 GET INPUT (Support of Text Attribute – Right Alignment)

27.22.4.3.8.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.3.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.3.3 Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.3.4 Method of test

27.22.4.3.8.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.3.4.2   Procedure

Expected Sequence 8.3 (GET INPUT, Text attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.3.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with right alignment]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.3.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.3.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.3.2	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/7, no alignment change will take place.]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.3.2	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.3.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 12345"
    Response length
        Minimum length: 5
        Maximum length: 5
    Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	02	B4	

TERMINAL RESPONSE: GET INPUT 8.3.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.3.2

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 22222"
    Response length
        Minimum length: 5
        Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.3.2

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data

Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.3.

27.22.4.3.8.4 GET INPUT (Support of Text Attribute – Large Font Size)

27.22.4.3.8.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.4.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.4.3 Test purpose

To verify that the ME displays the text formatted according to the large font size text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.4.4 Method of test

27.22.4.3.8.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.4.4.2   Procedure

Expected Sequence 8.4 (GET INPUT, Text attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.4.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with large font size]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.4.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.4.2	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted with normal font size]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.4.2	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.4.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.4.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
16	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with large font size]
17	USER → ME	Enter the input "12345" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.4.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.4.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.4.3	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
22	ME → USER	Display "Enter 33333"	[Message shall be formatted with normal font size]
23	USER → ME	Enter the input "33333" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.4.3	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.4.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                               echo text
    Device identities
        Source device: UICC
        Destination device: ME

Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 12345"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	04	B4	

TERMINAL RESPONSE: GET INPUT 8.4.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.4.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 22222"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11

	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.4.2

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.4.3

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	UICC
	Destination device:	ME
Text String		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"Enter 33333"
Response length		
	Minimum length:	5
	Maximum length:	5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.4.3

Logically:

Command details		
	Command number:	1

	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.4.

27.22.4.3.8.5 GET INPUT (Support of Text Attribute – Small Font Size)

27.22.4.3.8.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.5.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.5.3 Test purpose

To verify that the ME displays the text formatted according to the small font size text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.5.4 Method of test

27.22.4.3.8.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.5.4.2 Procedure

Expected Sequence 8.5 (GET INPUT, Text attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.5.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with small font size]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.5.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.5.2	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted with normal font size]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.5.2	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.5.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.5.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
16	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with small font size]
17	USER → ME	Enter the input "12345" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.5.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.5.3	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
22	ME → USER	Display "Enter 33333"	[Message shall be formatted with normal font size]
23	USER → ME	Enter the input "33333" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.5.3	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.5.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                               echo text
    Device identities
        Source device: UICC
        Destination device: ME

Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 12345"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	08	B4	

TERMINAL RESPONSE: GET INPUT 8.5.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.5.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 22222"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11

Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.5.2

Logically:

```
Command details
    Command number:         1
    Command type:           GET INPUT
    Command qualifier:      digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                            echo text
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command performed successfully
Text string
    Data coding scheme:     unpacked, 8 bit data
    Text:                   "22222"
```

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.5.3

Logically:

```
Command details
    Command number:         1
    Command type:           GET INPUT
    Command qualifier:      digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                            echo text
Device identities
    Source device:          UICC
    Destination device:     ME
Text String
    Data coding scheme:     unpacked, 8 bit data
    Text:                   "Enter 33333"
Response length
    Minimum length:         5
    Maximum length:         5
```

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.5.3

Logically:

```
Command details
```

	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.5.

27.22.4.3.8.6 GET INPUT (Support of Text Attribute – Bold On)

27.22.4.3.8.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.6.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.6.3 Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.6.4 Method of test

27.22.4.3.8.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.6.4.2 Procedure

Expected Sequence 8.6 (GET INPUT, Text attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.6.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with bold on]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.6.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.6.2	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted with bold off]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.6.2	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.6.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.6.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
16	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with bold on]
17	USER → ME	Enter the input "12345" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.6.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.6.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.6.3	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
22	ME → USER	Display "Enter 33333"	[Message shall be formatted with bold off]
23	USER → ME	Enter the input "33333" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.6.3	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.6.1

Logically:

    Command details
            Command number: 1
            Command type: GET INPUT
            Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
            Source device: UICC
            Destination device: ME
    Text String
            Data coding scheme: unpacked, 8 bit data
            Text: "Enter 12345"

Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	10	B4	

TERMINAL RESPONSE: GET INPUT 8.6.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.6.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 22222"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.6.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.6.3

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 33333"
Response length
    Minimum length: 5
    Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.6.3

Logically:

Command details
    Command number: 1
    Command type: GET INPUT

	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.6.

27.22.4.3.8.7 GET INPUT (Support of Text Attribute – Italic On)

27.22.4.3.8.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.7.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.7.3 Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.7.4 Method of test

27.22.4.3.8.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.7.4.2 Procedure

Expected Sequence 8.7 (GET INPUT, Text attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.7.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with italic on]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.7.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.7.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.7.2	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted with italic off]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.7.2	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.7.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.7.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
16	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with italic on]
17	USER → ME	Enter the input "12345" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.7.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.7.2	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.7.3	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
22	ME → USER	Display "Enter 33333"	[Message shall be formatted with italic off]
23	USER → ME	Enter the input "33333" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.7.3	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.7.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 12345"

Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	20	B4	

TERMINAL RESPONSE: GET INPUT 8.7.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.7.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 22222"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.7.2

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.7.3

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 33333"
    Response length
        Minimum length: 5
        Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.7.3

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT

	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.7.

27.22.4.3.8.8 GET INPUT (Support of Text Attribute – Underline On)

27.22.4.3.8.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.8.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.8.3 Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.8.4 Method of test

27.22.4.3.8.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.8.4.2 Procedure

Expected Sequence 8.8 (GET INPUT, Text attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.8.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with underline on]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.8.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.8.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.8.2	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted with underline off]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.8.2	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.8.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.8.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
16	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with underline on]
17	USER → ME	Enter the input "12345" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.8.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.8.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.8.3	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
22	ME → USER	Display "Enter 33333"	[Message shall be formatted with underline off]
23	USER → ME	Enter the input "33333" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.8.3	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.8.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                             echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data

	Text:	"Enter 12345"
Response length		
	Minimum length:	5
	Maximum length:	5
Text Attribute		
	Formatting position:	0
	Formatting length:	11
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	40	B4	

TERMINAL RESPONSE: GET INPUT 8.8.1

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.8.2

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities		
	Source device:	UICC
	Destination device:	ME
Text String		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"Enter 22222"
Response length		
	Minimum length:	5
	Maximum length:	5
Text Attribute		
	Formatting position:	0
	Formatting length:	11
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.8.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.8.3

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 33333"
Response length
    Minimum length: 5
    Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.8.3

Logically:

Command details
    Command number: 1
    Command type: GET INPUT

Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text string

Data coding scheme: unpacked, 8 bit data

Text: "33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.8.

27.22.4.3.8.9 GET INPUT (Support of Text Attribute – Strikethrough On)

27.22.4.3.8.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.9.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.9.3 Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.9.4 Method of test

27.22.4.3.8.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.9.4.2 Procedure

Expected Sequence 8.9 (GET INPUT, Text attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.9.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with strikethrough on]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.9.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.9.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.9.2	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
10	ME → USER	Display "Enter 22222"	[Message shall be formatted with strikethrough off]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.9.2	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.9.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.9.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
16	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with strikethrough on]
17	USER → ME	Enter the input "12345" and completion	
18	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.9.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.9.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.9.3	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
22	ME → USER	Display "Enter 33333"	[Message shall be formatted with strikethrough off]
23	USER → ME	Enter the input "33333" and completion	
24	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.9.3	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.9.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                             echo text
    Device identities
        Source device: UICC
        Destination device: ME

Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 12345"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	80	B4	

TERMINAL RESPONSE: GET INPUT 8.9.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.9.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 22222"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11

Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off		
Colour:	Dark Green Foreground, Bright Yellow Background		

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.9.2

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.9.3

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 33333"
Response length
    Minimum length: 5
    Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.9.3

Logically:

Command details

Command number:	1	
Command type:	GET INPUT	
Command qualifier:	digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text	
Device identities		
Source device:	ME	
Destination device:	UICC	
Result		
General Result:	Command performed successfully	
Text string		
Data coding scheme:	unpacked, 8 bit data	
Text:	"33333"	

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.9.

27.22.4.3.8.10 GET INPUT (Support of Text Attribute – Foreground and Background Colour)

27.22.4.3.8.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.10.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.10.3 Test purpose

To verify that the ME displays the text formatted according to the fore- and background colour text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.10.4 Method of test

27.22.4.3.8.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.10.4.2 Procedure

Expected Sequence 8.10 (GET INPUT, Text attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.10.1	[digits only, SMS default alphabet, ME to echo text, packing not required, text attribute]
4	ME → USER	Display "Enter 12345"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted according to foreground and background colour text attribute configuration]
5	USER → ME	Enter the input "12345" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.10.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 8.10.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET INPUT 8.10.2	[digits only, SMS default alphabet, ME to echo text, packing not required, no text attribute]
10	ME → USER	Display "Enter 22222"	[Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with the ME"s default foreground and background]
11	USER → ME	Enter the input "22222" and completion	
12	ME → UICC	TERMINAL RESPONSE: GET INPUT 8.10.2	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 8.10.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                           echo text
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Enter 12345"
Response length
    Minimum length: 5
    Maximum length: 5
Text Attribute
    Formatting position: 0
    Formatting length: 11
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.10.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                               echo text
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.10.2

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                               echo text
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter 22222"
    Response length
        Minimum length: 5
        Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.10.2

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to
                               echo text
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data

Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.10.

27.22.4.3.9 GET INPUT (UCS2 display in Chinese)

27.22.4.3.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.9.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.3.9.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.9.4 Method of test

27.22.4.3.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.3.9.4.2 Procedure

Expected Sequence 9.1 (GET INPUT, text string coding in UCS2 - Chinese characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 9.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 9.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "你好"	Range of expected length is 5-5 Text string "Hello" in Chinese coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 9.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 9.1.1

Logically:

Command details
 Command number: 1
 Command type: GET INPUT
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
 Source device: UICC
 Destination device: ME
Text String
 Data coding scheme: 16 bit data UCS2 alphabet format
 Text: "你好"
Response length
 Minimum length: 5
 Maximum length: 5

Coding:

BER-TLV:	D0	14	81	03	01	23	01	82	02	81	82	8D
	05	08	4F	60	59	7D	91	02	05	05		

TERMINAL RESPONSE: GET INPUT 9.1.1

Logically:

Command details
 Command number: 1
 Command type: GET INPUT
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
 Source device: ME
 Destination device: UICC
Result
 General Result: Command performed successfully
Text string
 Data coding scheme: unpacked, 8 bit data
 Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

Expected Sequence 9.2 (GET INPUT, max length for the text string coding in UCS2 - Chinese characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 9.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 9.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display	Range of expected length is 5-5
		"你好你"	Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 9.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 9.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: 16 bit data UCS2 alphabet format
    Text:

    "你好你"

Response length
    Minimum length: 5
    Maximum length: 5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	01	82	02	81	82
	8D	81	8D	08	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D

91	02	05	05								

TERMINAL RESPONSE: GET INPUT 9.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: unpacked, 8 bit data
        Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

27.22.4.3.9.5 Test requirement

The ME shall operate in the manner defined in expected sequences 9.1 to 9.2

27.22.4.3.10 GET INPUT (UCS2 entry in Chinese)

27.22.4.3.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.10.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in ISO/IEC 10646 [17].

27.22.4.3.10.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.10.4 Method of test

27.22.4.3.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.3.10.4.2 Procedure

Expected Sequence 10.1 (GET INPUT, character set from UCS2 alphabet - Chinese characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 10.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 10.1.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is 2-2 Text string coding in unpacked format
5	USER → ME	Enter the input "你好" and completion	"Hello" in Chinese, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 10.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 10.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter Hello"
    Response length
        Minimum length: 2
        Maximum length: 2

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	02	02							

TERMINAL RESPONSE: GET INPUT 10.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text string
        Data coding scheme: UCS2
        Text: "你好"

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	05	08	4F	60	59	7D					

Expected Sequence 10.2 (GET INPUT, character set from UCS2 alphabet - Chinese characters, Max length for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 10.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 10.2.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is no limit Text string coding in unpacked format
5	USER → ME	Enter the input "你好" and completion	Input length 70 characters, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 10.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 10.2.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter Hello"
    Response length
        Minimum length: 5
        Maximum length: No maximum length requirement

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	05	FF							

TERMINAL RESPONSE: GET INPUT 10.2.1

Logically:

> Command details
>> Command number: 1
>> Command type: GET INPUT
>> Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully
>> Data coding scheme: UCS2
>> Text:
>>
>> "你好" (70 chars)

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	81	8D	08	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D

27.22.4.3.10.5 Test requirement

The ME shall operate in the manner defined in expected sequences 10.1 to 10.2

27.22.4.3.11 GET INPUT (UCS2 display in Katakana)

27.22.4.3.11.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.11.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.3.11.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.11.4   Method of test

27.22.4.3.11.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.3.11.4.2   Procedure

Expected Sequence 11.1 (GET INPUT, text string coding in UCS2 in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 11.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 11.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "ﾙ"	Range of expected length is 5-5 Text string "Test" in Katakana coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 11.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 11.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: 16 bit data UCS2 alphabet format
        Text: "ﾙ"
    Response length
        Minimum length: 5
        Maximum length: 5

Coding:

BER-TLV:	D0	12	81	03	01	23	01	82	02	81	82	8D
	03	08	30	EB	91	02	05	05				

TERMINAL RESPONSE: GET INPUT 11.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET INPUT

	Command qualifier:	alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text string		
	Data coding scheme:	unpacked, 8 bit data
	Text:	"HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

Expected Sequence 11.2 (GET INPUT, max length for the text string coding in UCS2 in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 11.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 11.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "ルルルルルルルルルルルルル ルルルルルルルルルルルルル ルルルルルルルルルルルル ルルルルルルルルルルルル ルルルルルルルルルルルル"	Range of expected length is 5-5 Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 11.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 11.2.1

Logically:

Command details		
	Command number:	1
	Command type:	GET INPUT
	Command qualifier:	alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities		
	Source device:	UICC
	Destination device:	ME
Text String		
	Data coding scheme:	16 bit data UCS2 alphabet format
	Text:	
		"ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル ルルル"
Response length		
	Minimum length:	5
	Maximum length:	5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	01	82	02	81	82

8D	81	8D	08	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
91	02	05	05								

TERMINAL RESPONSE: GET INPUT 11.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INPUT
    Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text string
    Data coding scheme: unpacked, 8 bit data
    Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

27.22.4.3.11.5 Test requirement

The ME shall operate in the manner defined in expected sequences 11.1 to 11.2

27.22.4.3.12 GET INPUT (UCS2 entry in Katakana)

27.22.4.3.12.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.12.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in ISO/IEC 10646 [17].

27.22.4.3.12.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.12.4   Method of test

27.22.4.3.12.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.3.12.4.2 Procedure

Expected Sequence 12.1 (GET INPUT, character set from UCS2 alphabet in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 12.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 12.1.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is 2-2
5	USER → ME	Enter the input "ルル" and completion	Text string coding in unpacked format "TestTest" in Katakana, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 12.1.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 12.1.1

Logically:

Command details
        Command number: 1
        Command type: GET INPUT
        Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help
                information available
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Enter Hello"
Response length
        Minimum length: 2
        Maximum length: 2

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	02	02							

TERMINAL RESPONSE: GET INPUT 12.1.1

Logically:

Command details
        Command number: 1
        Command type: GET INPUT

          Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available

Device identities
          Source device: ME
          Destination device: UICC
Result
          General Result: Command performed successfully
Text string
          Data coding scheme: UCS2
          Text: "ルレ"

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	05	08	30	EB	30	EB					

Expected Sequence 12.2 (GET INPUT, character set from UCS2 alphabet in Katakana, Max length for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET INPUT 12.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET INPUT 12.2.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is no limit. Text string coding in unpacked format
5	USER → ME	Enter the input "ルレ" and completion	Input length 70 characters, coding in UCS2 format
6	ME → UICC	TERMINAL RESPONSE: GET INPUT 12.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 12.2.1

Logically:

Command details
          Command number: 1
          Command type: GET INPUT
          Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
Device identities
          Source device: UICC
          Destination device: ME
Text String
          Data coding scheme: unpacked, 8 bit data
          Text: "Enter Hello"
Response length
          Minimum length: 5
          Maximum length: No maximum length requirement

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	05	FF							

TERMINAL RESPONSE: GET INPUT 12.2.1

Logically:

 Command details
  Command number: 1
  Command type: GET INPUT
  Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available
 Device identities
  Source device: ME
  Destination device: UICC
 Result
  General Result: Command performed successfully
  Data coding scheme: UCS2
  Text:

  "ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル
  ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル"
  (70 chars)

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	81	8D	08	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB

27.22.4.3.12.5 Test requirement

The ME shall operate in the manner defined in expected sequences 12.1 to 12.2.

27.22.4.4 MORE TIME

27.22.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.4.2 Conformance requirement

The ME shall support the MORE TIME command as defined in:

- 3GPP TS 31.111 [15] clause 6.4.4, clause 6.6.4, clause 5.2, clause 8.6 and clause 8.7.

27.22.4.4.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the MORE TIME proactive UICC command.

27.22.4.4.4 Method of test

27.22.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.4.4.2 Procedure

Expected Sequence 1.1 (MORE TIME)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: MORE TIME 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: MORE TIME 1.1.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: MORE TIME 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: MORE TIME
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: MORE TIME
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	02	00	82	02	82	81	83	01	00

27.22.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.4.5 PLAY TONE

27.22.4.5.1 PLAY TONE (Normal)

27.22.4.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.1.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

27.22.4.5.1.3 Test purpose

To verify that the ME plays an audio tone of a type and duration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece whilst not in call and shall superimpose the tone on top of the downlink audio whilst in call.

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command.

27.22.4.5.1.4 Method of test

27.22.4.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.1.4.2 Procedure

Expected Sequence 1.1 (PLAY TONE)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.1	
4	ME → USER	Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.2	

Step	Direction	MESSAGE / Action	Comments
10	ME → USER	Display "Sub. Busy" Play a standard supervisory called subscriber busy tone for a duration of 5 s	
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.2	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.3	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.3	
16	ME → USER	Display "Congestion" Play a standard supervisory congestion tone for a duration of 5 s	
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.3	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.4	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.4	
22	ME → USER	Display "RP Ack" Play a standard supervisory radio path acknowledgement tone	
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.4	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	
25	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.5	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.5	
28	ME → USER	Display "No RP" Play a standard supervisory radio path not available / call dropped tone for a duration of 5 s	
29	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.5	[Command performed successfully]
30	UICC → ME	PROACTIVE UICC SESSION ENDED	
31	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.6	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.6	
34	ME → USER	Display "Spec Info" Play a standard supervisory error / special information tone for a duration of 5 s	
35	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.6	[Command performed successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.7	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.7	
40	ME → USER	Display "Call Wait" Play a standard supervisory call waiting tone for a duration of 5 s	

Step	Direction	MESSAGE / Action	Comments
41	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.7	[Command performed successfully]
42	UICC → ME	PROACTIVE UICC SESSION ENDED	
43	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.8	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.8	
46	ME → USER	Display "Ring Tone" Play a standard supervisory ringing tone for duration of 5 s	
47	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.8	[Command performed successfully]
48	UICC → ME	PROACTIVE UICC SESSION ENDED	
49	USER → ME	Set up a voice call	[User dials 123456789 to connect to the network manually]
50	ME → USS	Establish voice call	[Voice call is established]
51	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.9	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.9	
54	ME → USER	Display "Dial Tone" Superimpose the standard supervisory dial tone on the audio downlink for the duration of 5 s	
55	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.9	[Command performed successfully]
56	UICC → ME	PROACTIVE UICC SESSION ENDED	
57	USER → ME	The user ends the call	
58	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.10	
59	ME → UICC	FETCH	
60	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.10	
61	ME → USER	Display "This command instructs the ME to play an audio tone. Upon receiving this command, the ME shall check if it is currently in, or in the process of setting up (SET-UP message sent to the network, see GSM"04.08"(8)), a speech call. - If the ME I" Play a general beep	
62	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.10a or TERMINAL RESPONSE: PLAY TONE 1.1.10b	[Command performed successfully] or [Command beyond ME's capabilities]
63	UICC → ME	PROACTIVE UICC SESSION ENDED	
64	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.11	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.11	
67	ME → USER	Display "Beep" Play a ME proprietary general beep	
68	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.11a Or TERMINAL RESPONSE: PLAY TONE 1.1.11b	[Command performed successfully] or [Command beyond ME's capabilities]

Step	Direction	MESSAGE / Action	Comments
69	UICC → ME	PROACTIVE UICC SESSION ENDED	
70	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.12	
71	ME → UICC	FETCH	
72	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.12	
73	ME → USER	Display "Positive" Play a ME proprietary positive acknowledgement tone	
74	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.12a or TERMINAL RESPONSE: PLAY TONE 1.1.12b	[Command performed successfully] or [Command beyond ME's capabilities]
75	UICC → ME	PROACTIVE UICC SESSION ENDED	
76	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.13	
77	ME → UICC	FETCH	
78	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.13	
79	ME → USER	Display "Negative" Play a ME proprietary negative acknowledgement tone	
80	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.13a or TERMINAL RESPONSE: PLAY TONE 1.1.13b	[Command performed successfully] or [Command beyond ME's capabilities]
81	UICC → ME	PROACTIVE UICC SESSION ENDED	
82	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.14	
83	ME → UICC	FETCH	
84	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.14	
85	ME → USER	Display "Quick" Play a ME proprietary general beep	
86	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.14a or TERMINAL RESPONSE: PLAY TONE 1.1.14b	[Command performed successfully] or [Command beyond ME's capabilities]
87	UICC → ME	PROACTIVE UICC SESSION ENDED	
88	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.15	
89	ME → UICC	FETCH	
90	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.15	
91	ME → USER	Display "<ABORT>" Play an ME Error / Special information tone until user aborts this command (the command shall be aborted by the user within 1 minute)	
92	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.15	[Proactive UICC session terminated by the user]
93	UICC → ME	PROACTIVE UICC SESSION ENDED	
94	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.16	
95	ME → UICC	FETCH	
96	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.16	[No alpha identifier, no tone tag, no duration tag]

Step	Direction	MESSAGE / Action	Comments
97	ME → User	ME plays general beep, or if not supported any (defined by ME-manufacturer) other supported tone	[ME uses default duration defined by ME-manufacturer]
98	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.16	[Command performed successfully], [ME uses general beep, or if not supported any (defined by ME-manufacturer) other supported tone, uses default duration defined by ME-manufacturer]
99	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "Dial Tone"
        Tone: Standard supervisory tones: dial tone
    Duration
        Time unit: Seconds
        Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	44	69	61	6C	20	54	6F	6E	65	8E	01
	01	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.2

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "Sub. Busy"
        Tone: Standard supervisory tones: called subscriber busy
    Duration
        Time unit: Seconds
        Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	53	75	62	2E	20	42	75	73	79	8E	01
	02	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.3

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
    Alpha identifier: "Congestion"
    Tone: Standard supervisory tones: congestion
Duration
    Time unit: Seconds
    Time interval: 5

Coding:

BER-TLV:	D0	1C	81	03	01	20	00	82	02	81	03	85
	0A	43	6F	6E	67	65	73	74	69	6F	6E	8E
	01	03	84	02	01	05						

PROACTIVE COMMAND: PLAY TONE 1.1.4

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
    Alpha identifier: "RP Ack"
    Tone: Standard supervisory tones: radio path acknowledge
Duration
    Time unit: Seconds
    Time interval: 5

Coding:

BER-TLV:	D0	18	81	03	01	20	00	82	02	81	03	85
	06	52	50	20	41	63	6B	8E	01	04	84	02
	01	05										

PROACTIVE COMMAND: PLAY TONE 1.1.5

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
    Alpha identifier: "No RP"
    Tone: Standard supervisory tones: radio path not available
Duration
    Time unit: Seconds
    Time interval: 5

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	4E	6F	20	52	50	8E	01	05	84	02	01
	05											

PROACTIVE COMMAND: PLAY TONE 1.1.6

Logically:

```
    Command details
        Command number:        1
        Command type:          PLAY TONE
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Earpiece
        Alpha identifier:      "Spec Info"
        Tone:                  Standard supervisory tones: Error/ special information
    Duration
        Time unit:             Seconds
        Time interval:         5
```

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	53	70	65	63	20	49	6E	66	6F	8E	01
	06	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.7

Logically:

```
    Command details
        Command number:        1
        Command type:          PLAY TONE
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Earpiece
        Alpha identifier:      "Call Wait"
        Tone:                  Standard supervisory tones: call waiting tone
    Duration
        Time unit:             Seconds
        Time interval:         5
```

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	43	61	6C	6C	20	57	61	69	74	8E	01
	07	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.8

Logically:

```
    Command details
        Command number:        1
        Command type:          PLAY TONE
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Earpiece
        Alpha identifier:      "Ring Tone"
```

Tone: Standard supervisory tones: ringing tone
Duration
Time unit: Seconds
Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	52	69	6E	67	20	54	6F	6E	65	8E	01
	08	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.9

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "Dial Tone"
        Tone: Standard supervisory tones: dial tone
    Duration
        Time unit: Seconds
        Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	44	69	61	6C	20	54	6F	6E	65	8E	01
	01	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.10

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "This command instructs the ME to play an audio tone. Upon receiving this
                             command, the ME shall check if it is currently in, or in the process of setting up
                             (SET-UP message sent to the network, see GSM"04.08"(8)), a speech call. - If the
                             ME I"

Coding:

BER-TLV:	D0	81	FD	81	03	01	20	00	82	02	81	03
	85	81	F1	54	68	69	73	20	63	6F	6D	6D
	61	6E	64	20	69	6E	73	74	72	75	63	74
	73	20	74	68	65	20	4D	45	20	74	6F	20
	70	6C	61	79	20	61	6E	20	61	75	64	69
	6F	20	74	6F	6E	65	2E	20	55	70	6F	6E
	20	72	65	63	65	69	76	69	6E	67	20	74
	68	69	73	20	63	6F	6D	6D	61	6E	64	2C
	20	74	68	65	20	4D	45	20	73	68	61	6C
	6C	20	63	68	65	63	6B	20	69	66	20	69
	74	20	69	73	20	63	75	72	72	65	6E	74
	6C	79	20	69	6E	2C	20	6F	72	20	69	6E
	20	74	68	65	20	70	72	6F	63	65	73	73
	20	6F	66	20	73	65	74	74	69	6E	67	20
	75	70	20	28	53	45	54	2D	55	50	20	6D
	65	73	73	61	67	65	20	73	65	6E	74	20
	74	6F	20	74	68	65	20	6E	65	74	77	6F
	72	6B	2C	20	73	65	65	20	47	53	4D	22
	30	34	2E	30	38	22	28	38	29	29	2C	20
	61	20	73	70	65	65	63	68	20	63	61	6C
	6C	2E	20	2D	20	49	66	20	74	68	65	20
	4D	45	20	49								

PROACTIVE COMMAND: PLAY TONE 1.1.11

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
    Alpha identifier: "Beep"
    Tone: ME proprietary tones: general beep
Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	16	81	03	01	20	00	82	02	81	03	85
	04	42	65	65	70	8E	01	10	84	02	01	01

PROACTIVE COMMAND: PLAY TONE 1.1.12

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
    Alpha identifier: "Positive"
    Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	50	6F	73	69	74	69	76	65	8E	01	11
	84	02	01	01								

PROACTIVE COMMAND: PLAY TONE 1.1.13

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "Negative"
        Tone: ME proprietary tones: negative acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	4E	65	67	61	74	69	76	65	8E	01	12
	84	02	01	01								

PROACTIVE COMMAND: PLAY TONE 1.1.14

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "Quick"
        Tone: ME proprietary tones: general beep
    Duration
        Time unit: Tenths of seconds
        Time interval: 2

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	51	75	69	63	6B	8E	01	10	84	02	02
	02											

PROACTIVE COMMAND: PLAY TONE 1.1.15

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "<ABORT>"

Tone: Standard supervisory tones: Error / Special information
Duration
    Time unit: Minutes
    Time interval: 1

Coding:

BER-TLV:	D0	19	81	03	01	20	00	82	02	81	03	85
	07	3C	41	42	4F	52	54	3E	8E	01	06	84
	02	00	01									

PROACTIVE COMMAND: PLAY TONE 1.1.16

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece

Coding:

BER-TLV:	D0	09	81	03	01	20	00	82	02	81	03	

TERMINAL RESPONSE: PLAY TONE 1.1.1 ... 1.1.9, 1.1.16

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: PLAY TONE 1.1.10a ... 1.1.14a

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: PLAY TONE 1.1.10b ..1.1.14b

Logically:

```
Command details
        Command number:        1
        Command type:          PLAY TONE
        Command qualifier:     "00"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command beyond ME's capabilities
```

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	30

TERMINAL RESPONSE: PLAY TONE 1.1.15

Logically:

```
Command details
        Command number:        1
        Command type:          PLAY TONE
        Command qualifier:     "00"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Proactive UICC session terminated by user
```

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	10

27.22.4.5.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.4.5.2   PLAY TONE (UCS2 display in Cyrillic)

27.22.4.5.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.5.2.2   Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [17].

27.22.4.5.2.3 Test purpose

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

27.22.4.5.2.4 Method of test

7.22.4.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.2.4.2 Procedure

Expected Sequence 2.1 (PLAY TONE, character set from UCS2 alphabet in Russian, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 2.1.1	[UCS2 alphabet]
4	ME → USER	Display "ЗДРАВСТВУЙТЕ" and play a ME proprietary positive acknowledgement tone	"Hello" in Russian, 0x80 coding of UCS2 format
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.1.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 2.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 2.1.2	[UCS2 alphabet]
10	ME → USER	Display "ЗДРАВСТВУЙТЕ" and play a ME proprietary positive acknowledgement tone	"Hello" in Russian, 0x81 coding of UCS2 format
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 2.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 2.1.3	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 2.1.3	[UCS2 alphabet]
16	ME → USER	Display "ЗДРАВСТВУЙТЕ" and play a ME proprietary positive acknowledgement tone	"Hello" in Russian, 0x82 coding of UCS2 format
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 2.1.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 2.1.1

Logically:

Command details
  Command number: 1
  Command type: PLAY TONE
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Earpiece
Alpha Identifier   "ЗДРАВСТВУЙТЕ"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
  Time unit: Seconds
  Time interval: 1

Coding:

BER-TLV:	D0	2B	81	03	01	20	00	82	02	81	03	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	8E	01	11	84	02	01	01			

PROACTIVE COMMAND: PLAY TONE 2.1.2

Logically:

Command details
  Command number: 1
  Command type: PLAY TONE
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Earpiece
Alpha Identifier   "ЗДРАВСТВУЙТЕ"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
  Time unit: Seconds
  Time interval: 1

Coding:

BER-TLV:	D0	21	81	03	01	20	00	82	02	81	03	85
	0F	81	0C	08	97	94	A0	90	92	A1	A2	92
	A3	99	A2	95	8E	01	11	84	02	01	01	

PROACTIVE COMMAND: PLAY TONE 2.1.3

Logically:

Command details
  Command number: 1
  Command type: PLAY TONE
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Earpiece
Alpha Identifier   "ЗДРАВСТВУЙТЕ"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
  Time unit: Seconds
  Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	82	0C	04	10	87	84	90	80	82	91	92
	82	93	89	92	85	8E	01	11	84	02	01	01

TERMINAL RESPONSE: PLAY TONE 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

27.22.4.5.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.5.3 PLAY TONE (display of Icon)

27.22.4.5.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.3.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8 and clause 8.31.

27.22.4.5.3.3 Test purpose

To verify that the ME plays an audio tone of a type and duration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

To verify that the ME displays the icon contained in the PLAY TONE proactive UICC command.

27.22.4.5.3.4 Method of test

27.22.4.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.3.4.2   Procedure

Expected Sequence 3.1A (PLAY TONE, Basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.1.1	[BASIC-ICON self-explanatory]
4	ME → USER	Display the basic icon without the alpha identifier Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.1.1A	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "<BASIC-ICON>"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1
    Icon Identifier
        Icon qualifier: self-explanatory
        Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	0C	3C	42	41	53	49	43	2D	49	43	4F	4E
	3E	8E	01	11	84	02	01	01	1E	02	00	01

TERMINAL RESPONSE: PLAY TONE 3.1.1A

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.1B (PLAY TONE, Basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.1.1	[BASIC-ICON self-explanatory]
4	ME → USER	Display "<BASIC-ICON>" without the icon Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.1.1B	[Command performed successfully, but requested icon could not be displayed]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.1.1B

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

Expected Sequence 3.2A (PLAY TONE, Basic icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.2.1	[BASIC-ICON non self-explanatory]
4	ME → USER	Display "<BASIC-ICON>" and the basic icon Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.2.1A	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.2.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC

	Destination device:	Earpiece
Alpha Identifier		'<BASIC-ICON>'

Tone: ME proprietary tones: positive acknowledgement tone

Duration

	Time unit:	Seconds
	Time interval:	1

Icon Identifier

	Icon qualifier:	non self-explanatory
	Icon identifier:	1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	0C	3C	42	41	53	49	43	2D	49	43	4F	4E
	3E	8E	01	11	84	02	01	01	1E	02	01	01

TERMINAL RESPONSE: PLAY TONE 3.2.1A

Logically:

Command details

	Command number:	1
	Command type:	PLAY TONE
	Command qualifier:	"00"

Device identities

	Source device:	ME
	Destination device:	UICC

Result

	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.2B (PLAY TONE, Basic icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.2.1	[BASIC-ICON non self-explanatory]
4	ME → USER	Display "<BASIC-ICON>" without the basic icon Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.2.1B	[Command performed successfully, but requested icon could not be displayed]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.2.1B

Logically:

Command details

	Command number:	1
	Command type:	PLAY TONE
	Command qualifier:	"00"

Device identities

	Source device:	ME

	Destination device:	UICC
Result		
	General Result:	Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

Expected Sequence 3.3A (PLAY TONE, Colour icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.3.1	[COLOUR-ICON self-explanatory]
4	ME → USER	Display the COLOUR-ICON without the alpha identifier Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.3.1A	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.3.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
Alpha Identifier   "<COLOUR-ICON>"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1
Icon Identifier
    Icon qualifier: self-explanatory
    Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	23	81	03	01	20	00	82	02	81	03	85
	0D	3C	43	4F	4C	4F	55	52	2D	49	43	4F
	4E	3E	8E	01	11	84	02	01	01	1E	02	00
	02											

TERMINAL RESPONSE: PLAY TONE 3.3.1A

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC

Result

    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.3B (PLAY TONE, Colour icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.3.1	[COLOUR-ICON self-explanatory]
4	ME → USER	Display "<COLOUR-ICON>" without the colour icon Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.3.1B	[Command performed successfully, but requested icon could not be displayed]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.3.1B

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

Expected Sequence 3.4A (PLAY TONE, Colour icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.4.1	[COLOUR-ICON non self-explanatory]
4	ME → USER	Display "<COLOUR-ICON>" and the colour icon Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.4.1A	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.4.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "<COLOUR-ICON>"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1
    Icon Identifier
        Icon qualifier: not self-explanatory
        Icon identifier: 2 (number of record in EF$_{Img}$)

Coding:

BER-TLV:	D0	23	81	03	01	20	00	82	02	81	03	85
	0D	3C	43	4F	4C	4F	55	52	2D	49	43	4F
	4E	3E	8E	01	11	84	02	01	01	1E	02	01
	02											

TERMINAL RESPONSE: PLAY TONE 3.4.1A

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.4B (PLAY TONE, Colour icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 3.4.1	[COLOUR-ICON non self-explanatory]
4	ME → USER	Display "<COLOUR-ICON>" without the colour icon Play a ME proprietary positive acknowledgement tone	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 3.4.1B	[Command performed successfully, but requested icon could not be displayed]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.4.1B

Logically:

```
Command details
      Command number:        1
      Command type:          PLAY TONE
      Command qualifier:     "00"
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Command performed successfully, but requested icon could not be displayed
```

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

27.22.4.5.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.4B.

27.22.4.5.4 PLAY TONE (Support of Text Attribute)

27.22.4.5.4.1 PLAY TONE (Support of Text Attribute – Left Alignment)

27.22.4.5.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.1.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.1.4 Method of test

27.22.4.5.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.1.4.2   Procedure

Expected Sequence 4.1 (PLAY TONE, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.1.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with left alignment]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.1.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.1.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/8, no alignment change will take place.]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.1.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
Alpha Identifier   "Text Attribute 1"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

TERMINAL RESPONSE: PLAY TONE 4.1.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.1.2

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
Alpha Identifier   "Text Attribute 2"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 4.1.

27.22.4.5.4.2 PLAY TONE (Support of Text Attribute – Center Alignment)

27.22.4.5.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.2.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.2.3 Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.2.4   Method of test

27.22.4.5.4.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.2.4.2   Procedure

Expected Sequence 4.2 (PLAY TONE, Text Attribute – Centre Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.2.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with center alignment]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.2.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.2.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.2.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/8, no alignment change will take place.]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.2.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.2.1

Logically:

```
    Command details
        Command number:        1
        Command type:          PLAY TONE
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Earpiece
    Alpha Identifier           "Text Attribute 1"
    Tone: ME proprietary tones: positive acknowledgement tone
```

Duration
   Time unit: Seconds
   Time interval: 1
Text Attribute
   Formatting position: 0
   Formatting length: 16
   Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
   Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	01	B4						

TERMINAL RESPONSE: PLAY TONE 4.2.1

Logically:

Command details
   Command number: 1
   Command type: PLAY TONE
   Command qualifier: "00"
Device identities
   Source device: ME
   Destination device: UICC
Result
   General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.2.2

Logically:

Command details
   Command number: 1
   Command type: PLAY TONE
   Command qualifier: "00"
Device identities
   Source device: UICC
   Destination device: Earpiece
Alpha Identifier   "Text Attribute 2"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
   Time unit: Seconds
   Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.2.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 4.2.

27.22.4.5.4.3   PLAY TONE (Support of Text Attribute – Right Alignment)

27.22.4.5.4.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.5.4.3.2   Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.3.3   Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.3.4   Method of test

27.22.4.5.4.3.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.3.4.2   Procedure

Expected Sequence 4.3 (PLAY TONE, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.3.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with right alignment]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.3.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.3.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.3.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/8, no alignment change will take place.]
1	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "Text Attribute 1"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1
    Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	02	B4						

TERMINAL RESPONSE: PLAY TONE 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.3.2

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "Text Attribute 2"
    Tone: ME proprietary tones: positive acknowledgement tone

Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 4.3.

27.22.4.5.4.4 PLAY TONE (Support of Text Attribute – Large Font Size)

27.22.4.5.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.4.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.4.3 Test purpose

To verify that the ME displays the text formatted according to the large font size text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.4.4 Method of test

27.22.4.5.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.4.4.2   Procedure

Expected Sequence 4.4 (PLAY TONE, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.4.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with large font size]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.4.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with normal font size]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.4.1	
16	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with large font size]
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.4.3	
22	ME → USER	Display 'Text Attribute 3' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with normal font size]
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.4.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "Text Attribute 1"

Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	04	B4						

TERMINAL RESPONSE: PLAY TONE 4.4.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.4.2

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
Alpha Identifier   "Text Attribute 2"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.4.3

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "Text Attribute 3"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.4.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 4.4.

27.22.4.5.4.5   PLAY TONE (Support of Text Attribute – Small Font Size)

27.22.4.5.4.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.5.4.5.2   Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.5.3   Test purpose

To verify that the ME displays the text formatted according to the small font size text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.5.4   Method of test

27.22.4.5.4.5.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.5.4.2 Procedure

Expected Sequence 4.5 (PLAY TONE, Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.5.1	
4	ME → USER	Display "Text Attribute 1" Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with small font size]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.5.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with normal font size]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.5.1	
16	ME → USER	Display "Text Attribute 1" Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with small font size]
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.5.3	
22	ME → USER	Display 'Text Attribute 3' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with normal font size]
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.5.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC

	Destination device:	Earpiece
Alpha Identifier	"Text Attribute 1"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
	Time unit:	Seconds
	Time interval:	1
Text Attribute
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	08	B4						

TERMINAL RESPONSE: PLAY TONE 4.5.1

Logically:

Command details
	Command number:	1
	Command type:	PLAY TONE
	Command qualifier:	"00"
Device identities
	Source device:	ME
	Destination device:	UICC
Result
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.5.2

Logically:

Command details
	Command number:	1
	Command type:	PLAY TONE
	Command qualifier:	"00"
Device identities
	Source device:	UICC
	Destination device:	Earpiece
Alpha Identifier	"Text Attribute 2"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
	Time unit:	Seconds
	Time interval:	1
Text Attribute
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.5.3

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "Text Attribute 3"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.5.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 4.5.

27.22.4.5.4.6   PLAY TONE (Support of Text Attribute – Bold On)

27.22.4.5.4.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.5.4.6.2   Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.6.3   Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.6.4   Method of test

27.22.4.5.4.6.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.6.4.2 Procedure

Expected Sequence 4.6 (PLAY TONE, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.6.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with bold on]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.6.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with bold off]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.6.1	
16	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with bold on]
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.6.3	
22	ME → USER	Display 'Text Attribute 3' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with bold off]
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC

| | Destination device: | Earpiece |
| | Alpha Identifier | "Text Attribute 1" |

Tone: ME proprietary tones: positive acknowledgement tone

Duration
    Time unit: Seconds
    Time interval: 1

Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	0E	10	B4						

TERMINAL RESPONSE: PLAY TONE 4.6.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.6.2

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
Alpha Identifier   "Text Attribute 2"

Tone: ME proprietary tones: positive acknowledgement tone

Duration
    Time unit: Seconds
    Time interval: 1

Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.6.3

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "Text Attribute 3"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 4.6.

27.22.4.5.4.7 PLAY TONE (Support of Text Attribute – Italic On)

27.22.4.5.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.7.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.7.3 Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.7.4 Method of test

27.22.4.5.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.7.4.2 Procedure

Expected Sequence 4.7 (PLAY TONE, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.7.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with italic on]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.7.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with italic off]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.7.1	
16	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with italic on]
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.7.3	
22	ME → USER	Display 'Text Attribute 3' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with italic off]
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.7.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC

	Destination device:	Earpiece
Alpha Identifier		"Text Attribute 1"

Tone: ME proprietary tones: positive acknowledgement tone

Duration
    Time unit: Seconds
    Time interval: 1
Text Attribute
    Formatting position: 0
    Formatting length: 14
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	0E	20	B4						

TERMINAL RESPONSE: PLAY TONE 4.7.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.7.2

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
Alpha Identifier   "Text Attribute 2"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.7.3

Logically:

    Command details
            Command number: 1
            Command type: PLAY TONE
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: Earpiece
    Alpha Identifier   "Text Attribute 3"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
            Time unit: Seconds
            Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.7.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 4.7.

27.22.4.5.4.8   PLAY TONE (Support of Text Attribute – Underline On)

27.22.4.5.4.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.5.4.8.2   Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.8.3   Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.8.4   Method of test

27.22.4.5.4.8.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.8.4.2 Procedure

Expected Sequence 4.8 (PLAY TONE, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.8.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with underline on]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.8.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with underline off]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.8.1	
16	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with underline on]
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.8.3	
22	ME → USER	Display 'Text Attribute 3' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with underline off]
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.8.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC

		Destination device:	Earpiece
Alpha Identifier			"Text Attribute 1"
Tone: ME proprietary tones: positive acknowledgement tone			
Duration			
		Time unit:	Seconds
		Time interval:	1
Text Attribute			
		Formatting position:	0
		Formatting length:	16
		Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
		Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	40	B4						

TERMINAL RESPONSE: PLAY TONE 4.8.1

Logically:

Command details		
	Command number:	1
	Command type:	PLAY TONE
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.8.2

Logically:

Command details		
	Command number:	1
	Command type:	PLAY TONE
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Earpiece
Alpha Identifier		"Text Attribute 2"
Tone: ME proprietary tones: positive acknowledgement tone		
Duration		
	Time unit:	Seconds
	Time interval:	1
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.8.3

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece
Alpha Identifier   "Text Attribute 3"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.8.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 4.8.

27.22.4.5.4.9   PLAY TONE (Support of Text Attribute – Strikethrough On)

27.22.4.5.4.9.1   Definition and applicability

See clause 3.2.2.

27.22.4.5.4.9.2   Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.9.3   Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.9.4   Method of test

27.22.4.5.4.9.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.9.4.2   Procedure

Expected Sequence 4.9 (PLAY TONE, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.9.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with strikethrough on]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.9.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with strikethrough off]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.9.1	
16	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with strikethrough on]
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.9.3	
22	ME → USER	Display 'Text Attribute 3' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with strikethrough off]
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.9.1

Logically:

    Command details
            Command number: 1
            Command type: PLAY TONE
            Command qualifier: "00"
    Device identities
            Source device: UICC

Destination device:	Earpiece					
Alpha Identifier	"Text Attribute 1"					
Tone: ME proprietary tones: positive acknowledgement tone						
Duration						
Time unit:	Seconds					
Time interval:	1					
Text Attribute						
Formatting position:	0					
Formatting length:	16					
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On					
Colour:	Dark Green Foreground, Bright Yellow Background					

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	80	B4						

TERMINAL RESPONSE: PLAY TONE 4.9.1

Logically:

Command details	
Command number:	1
Command type:	PLAY TONE
Command qualifier:	"00"
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.9.2

Logically:

Command details	
Command number:	1
Command type:	PLAY TONE
Command qualifier:	"00"
Device identities	
Source device:	UICC
Destination device:	Earpiece
Alpha Identifier	"Text Attribute 2"
Tone: ME proprietary tones: positive acknowledgement tone	
Duration	
Time unit:	Seconds
Time interval:	1
Text Attribute	
Formatting position:	0
Formatting length:	16
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.9.3

Logically:

Command details
 Command number: 1
 Command type: PLAY TONE
 Command qualifier: "00"
Device identities
 Source device: UICC
 Destination device: Earpiece
Alpha Identifier "Text Attribute 3"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
 Time unit: Seconds
 Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 4.9.

27.22.4.5.4.10 PLAY TONE (Support of Text Attribute – Foreground and Background Colour)

27.22.4.5.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.10.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.10.3 Test purpose

To verify that the ME displays the text formatted according to the foreground and background colour text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.10.4 Method of test

27.22.4.5.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.4.10.4.2   Procedure

Expected Sequence 4.10 (PLAY TONE, Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.10.1	
4	ME → USER	Display 'Text Attribute 1' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted according to the foreground and background colour text attribute configuration]
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.10.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 4.10.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 4.10.2	
10	ME → USER	Display 'Text Attribute 2' Play a ME proprietary positive acknowledgement tone	[Message shall be formatted with the ME"s default foreground and background colour]
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 4.10.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.10.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "Text Attribute 1"
    Tone: ME proprietary tones: positive acknowledgement tone
    Duration
        Time unit: Seconds
        Time interval: 1
    Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

TERMINAL RESPONSE: PLAY TONE 4.10.1

Logically:

> Command details
>> Command number: 1
>> Command type: PLAY TONE
>> Command qualifier: "00"
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.10.2

Logically:

> Command details
>> Command number: 1
>> Command type: PLAY TONE
>> Command qualifier: "00"
> Device identities
>> Source device: UICC
>> Destination device: Earpiece
> Alpha Identifier "Text Attribute 2"
> Tone: ME proprietary tones: positive acknowledgement tone
> Duration
>> Time unit: Seconds
>> Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 4.10.

27.22.4.5.5 PLAY TONE (UCS2 display in Chinese)

27.22.4.5.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.5.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

27.22.4.5.5.3   Test purpose

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

27.22.4.5.5.4   Method of test

7.22.4.5.5.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.5.4.2   Procedure

Expected Sequence 5.1 (PLAY TONE, character set from UCS2 alphabet in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 5.1.1	[UCS2 alphabet]
4	ME → USER	Display "中一" and play a ME proprietary positive acknowledgement tone	'Middle 1" in Chinese, 0x80 coding of UCS2 format
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 5.1.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 5.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 5.1.2	[UCS2 alphabet]
10	ME → USER	Display "中一" and play a ME proprietary positive acknowledgement tone	'Middle 1" in Chinese, 0x81 coding of UCS2 format
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 5.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 5.1.3	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 5.1.3	[UCS2 alphabet]
16	ME → USER	Display "中一" and play a ME proprietary positive acknowledgement tone	'Middle 1" in Chinese, 0x82 coding of UCS2 format
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 5.1.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 5.1.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece

Alpha Identifier   "中一"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	80	4E	2D	4E	00	8E	01	11	84	02	01
	01											

PROACTIVE COMMAND: PLAY TONE 5.1.2

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece

Alpha Identifier   "中一"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	81	02	9C	AD	80	8E	01	11	84	02	01
	01											

PROACTIVE COMMAND: PLAY TONE 5.1.3

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Earpiece

Alpha Identifier   "中一"
Tone: ME proprietary tones: positive acknowledgement tone
Duration
    Time unit: Seconds
    Time interval: 1

Coding:

BER-TLV:	D0	18	81	03	01	20	00	82	02	81	03	85
	06	82	02	4E	00	AD	80	8E	01	11	84	02
	01	01										

TERMINAL RESPONSE: PLAY TONE 5.1.1

Logically:

Command details
    Command number: 1
    Command type: PLAY TONE
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

27.22.4.5.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.5.6 PLAY TONE (UCS2 display in Katakana)

27.22.4.5.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.6.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

27.22.4.5.6.3 Test purpose

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

27.22.4.5.6.4 Method of test

7.22.4.5.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.5.6.4.2   Procedure

Expected Sequence 6.1 (PLAY TONE, with UCS2 in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 6.1.1	[UCS2 alphabet]
4	ME → USER	Display "80ﾙ0" Play a ME standard supervisory dial tone for 5 seconds	"80Test0" in Katakana, 0x80 coding of UCS2 format
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 6.1.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 6.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 6.1.2	
10	ME → USER	Display "81ﾙ1" Play a ME standard supervisory dial tone for 5 seconds	"81Test1" in Katakana, 0x81 coding of UCS2 format
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 6.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 6.1.3	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 6.1.3	
16	ME → USER	Display "82ﾙ2" Play a ME standard supervisory dial tone for 5 seconds	"82Test2" in Katakana, 0x82 coding of UCS2 format
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 6.1.1	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "80ﾙ0"
    Tone: ME proprietary tones: Standard supervisory tones: Dial tone
    Duration
        Time unit: Seconds
        Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	80	00	38	00	30	30	EB	00	30	8E	01
	01	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 6.1.2

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "81ル1"
    Tone: ME proprietary tones: Standard supervisory tones: Dial tone
    Duration
        Time unit: Seconds
        Time interval: 5

Coding:

BER-TLV:	D0	19	81	03	01	20	00	82	02	81	03	85
	07	81	04	61	38	31	EB	31	8E	01	01	84
	02	01	05									

PROACTIVE COMMAND: PLAY TONE 6.1.3

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
    Alpha Identifier   "82ル2"
    Tone: ME proprietary tones: Standard supervisory tones: Dial tone
    Duration
        Time unit: Seconds
        Time interval: 5

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	82	04	30	A0	38	32	CB	32	8E	01	01
	84	02	01	05								

TERMINAL RESPONSE: PLAY TONE 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

27.22.4.5.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.8.7 SET UP MENU (UCS2 display in Cyrillic) and ENVELOPE MENU SELECTION

27.22.4.8.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.7.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- 3GPP TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.

- Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [17].

27.22.4.8.7.3 Test purpose

To verify that the ME correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.7.4 Method of test

27.22.4.8.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.7.4.2 Procedure

Expected Sequence 7.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 in Cyrillic Characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 7.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 7.1.1	
4	ME → USER	Integrate the menu header of "ЗДРАВСТВУЙТЕ" into its menu system and have the menu items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2", "ЗДРАВСТВУЙТЕ3" and "ЗДРАВСТВУЙТЕ4" under this header.	["ЗДРАВСТВУЙТЕ" : "Hello" in Russian]
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 7.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "ЗДРАВСТВУЙТЕ"	
8	ME → USER	Display "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2", "ЗДРАВСТВУЙТЕ3", "ЗДРАВСТВУЙТЕ4"	
9	USER → ME	Select the "ЗДРАВСТВУЙТЕ2" Menu entry	
10	ME → UICC	Send the ENVELOPE 7.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 7.1.2	[Second Set Up Menu, REPLACE Old Menu]
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 7.1.2	
14	ME → USER	Integrate the new menu header of "ЗДРАВСТВУЙТЕ" into its menu system and have the menu items of "ЗДРАВСТВУЙТЕ5" and "ЗДРАВСТВУЙТЕ6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 7.1.2	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "ЗДРАВСТВУЙТЕ"	
18	ME → USER	Display "ЗДРАВСТВУЙТЕ5", "ЗДРАВСТВУЙТЕ 6"	
19	USER → ME	Select the "ЗДРАВСТВУЙТЕ6" menu entry	
20	ME → UICC	Send the ENVELOPE 7.1.2: MENU SELECTION (Identifier of item: 12)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 7.1.3 with SW1 / SW2 of '91 0F'.	[Third Set Up Menu, REMOVE Toolkit Menu]
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 7.1.3	
24	ME → USER	Remove the menu "ЗДРАВСТВУЙТЕ" from its menu system.	

25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 7.1.3	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 7.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha identifier: "ЗДРАВСТВУЙТЕ"
    Item
        Identifier of item: 1
        Text string of item: "ЗДРАВСТВУЙТЕ1"
    Item
        Identifier of item: 2
        Text string of item: "ЗДРАВСТВУЙТЕ2"
    Item
        Identifier of item: 3
        Text string of item: "ЗДРАВСТВУЙТЕ3"
    Item
        Identifier of item: 4
        Text string of item: "ЗДРАВСТВУЙТЕ4"

Coding:

BER-TLV:	D0	81	9C	81	03	01	25	00	82	02	81	82
	85	19	80	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15	8F	1C	01	80	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15	00	31	8F	1C	02
	80	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15	00	32	8F	1C	03	80	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15	00	33	8F	1C	03
	80	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15	00	34									

PROACTIVE COMMAND: SET UP MENU 7.1.2

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha identifier: "ЗДРАВСТВУЙТЕ"
    Item
        Identifier of item: "11"

		Text string of item:	"ЗДРАВСТВУЙТЕ5"
Item			
		Identifier of item:	"12"
		Text string of item:	"ЗДРАВСТВУЙТЕ6"

Coding:

BER-TLV:	D0	60	81	03	01	25	00	82	02	81	82	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	8F	1C	11	80	04	17	04	14	04	20
	04	85	04	12	04	21	04	22	04	12	04	23
	04	19	04	22	04	15	00	35	8F	1C	12	80
	04	17	04	14	04	20	04	10	04	12	04	21
	04	22	04	12	04	23	04	19	04	22	04	15
	00	36										

PROACTIVE COMMAND: SET UP MENU 7.1.3

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha identifier: Null data object
    Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 7.1.1, 7.1.2 and 7.1.3

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 7.1.1: MENU SELECTION

Logically:

    Menu selection
        Device identities
        Source device: Keypad
        Destination device: UICC

Item identifier   02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 7.1.2: MENU SELECTION

Logically:

Menu selection
     Device identities
     Source device: Keypad
     Destination device: UICC
     Item identifier   12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12

27.22.4.8.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.8.8 SET UP MENU (UCS2 display in Chinese) and ENVELOPE MENU SELECTION

27.22.4.8.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.8.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4

The ME shall support MENU SELECTION as defined in:

- 3GPP TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.

- Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

27.22.4.8.8.3 Test purpose

To verify that the ME correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.8.4   Method of test

27.22.4.8.8.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.8.4.2 Procedure

Expected Sequence 8.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 – Chinese characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 8.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 8.1.1	
4	ME → USER	Integrate the menu header of "工具箱单" into its menu system and have the menu items of "项目一", "项目二", "项目三" and "项目四" under this header.	["工具箱单" : "Toolkit Menu" in Chinese] ["项目一" : "Item 1" in Chinese] ["项目二" : "Item 2" in Chinese] ["项目三" : "Item 3" in Chinese] ["项目四" : "Item 4" in Chinese]
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 8.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "工具箱单"	
8	ME → USER	Display "项目一", "项目二", "项目三", "项目四"	
9	USER → ME	Select the "项目二" Menu entry	
10	ME → UICC	Send the ENVELOPE 8.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 8.1.2	[Second Set Up Menu, REPLACE Old Menu]
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 8.1.2	
14	ME → USER	Integrate the new menu header of "工具箱单" into its menu system and have the menu items of "一" and "二" under this header.	["一" : "One" in Chinese] ["二" : "Two" in Chinese]
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 8.1.2	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
18	ME → USER	Display "一", "二"	
19	USER → ME	Select the "二" menu entry	
20	ME → UICC	Send the ENVELOPE 8.1.2: MENU SELECTION (Identifier of item: 12)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 8.1.3 with SW1 / SW2 of '91 0F'.	[Third Set Up Menu, REMOVE Toolkit Menu]
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 8.1.3	
24	ME → USER	Remove the menu "工具箱单" from its menu system.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 8.1.3	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 8.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
Alpha identifier:              "工具箱单"
Item
        Identifier of item:    1

        Text string of item:   "项目一"
Item
        Identifier of item:    2

        Text string of item:   "项目二"
Item
        Identifier of item:    3

        Text string of item:   "项目三"
Item
        Identifier of item:    4

        Text string of item:   "项目四"
```

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	09	80	5D	E5	51	77	7B	B1	53	55	8F	08
	01	80	98	79	76	EE	4E	00	8F	08	02	80
	98	79	76	EE	4E	8C	8F	08	03	80	98	79
	76	EE	4E	09	8F	08	04	80	98	79	76	EE
	56	DB										

PROACTIVE COMMAND: SET UP MENU 8.1.2

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
Alpha identifier:              "工具箱单"
Item
        Identifier of item:    "11"

        Text string of item:   "一"
Item
        Identifier of item:    "12"

        Text string of item:   "二"
```

Coding:

BER-TLV:	D0	20	81	03	01	25	00	82	02	81	82	85
	09	80	5D	E5	51	77	7B	B1	53	55	8F	04
	11	80	4E	00	8F	04	12	80	4E	8C		

PROACTIVE COMMAND: SET UP MENU 8.1.3

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP MENU
>> Command qualifier: "00"
> Device identities
>> Source device: UICC
>> Destination device: ME
> Alpha identifier: Null data object
> Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 8.1.1, 8.1.2 and 8.1.3

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP MENU
>> Command qualifier: "00"
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 8.1.1: MENU SELECTION

Logically:

> Menu selection
>> Device identities
>> Source device: Keypad
>> Destination device: UICC
>> Item identifier   02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 8.1.2: MENU SELECTION

Logically:

> Menu selection
>> Device identities
>> Source device: Keypad

Destination device: UICC
Item identifier 12

Coding:

| BER-TLV: | D3 | 07 | 82 | 02 | 01 | 81 | 90 | 01 | 12 |

27.22.4.8.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.1.

27.22.4.8.9 SET UP MENU (UCS2 display in Katakana) and ENVELOPE MENU SELECTION

27.22.4.8.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.9.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- 3GPP TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.

- Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

27.22.4.8.9.3 Test purpose

To verify that the ME correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.9.4 Method of test

27.22.4.8.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.9.4.2 Procedure

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 9.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 9.1.1	
4	ME → USER	Integrate the menu header of "80ﾚ0" into its menu system and have the menu items of "80ﾚ1", "80ﾚ2", "80ﾚ3" and "80ﾚ4" under this header.	["80ﾚ0" : "80Test0" in Katakana] ["80ﾚ1" : "80Test1" in Katakana] ["80ﾚ2" : "80Test2" in Katakana] ["80ﾚ3" : "80Test3" in Katakana] ["80ﾚ4" : "80Test4" in Katakana]
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 9.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "80ﾚ0"	
8	ME → USER	Display "80ﾚ1", "80ﾚ2", "80ﾚ3", "80ﾚ4"	
9	USER → ME	Select the "80ﾚ2" Menu entry	
10	ME → UICC	Send the ENVELOPE 9.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 9.1.2	[Second Set Up Menu, REPLACE Old Menu]
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 9.1.2	
14	ME → USER	Integrate the new menu header of "80ﾚ0" into its menu system and have the menu items of "80ﾚ5" and "80ﾚ6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 9.1.2	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
18	ME → USER	Display "80ﾚ5", "80ﾚ6"	
19	USER → ME	Select the "80ﾚ6" menu entry	
20	ME → UICC	Send the ENVELOPE 9.1.2: MENU SELECTION (Identifier of item: 12)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 9.1.3 with SW1 / SW2 of '91 0F'.	[Third Set Up Menu, REMOVE Toolkit Menu]
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 9.1.3	
24	ME → USER	Remove the menu "80ﾚ0" from its menu system.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 9.1.3	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 9.1.1

Logically:

 Command details
  Command number: 1
  Command type: SET UP MENU
  Command qualifier: "00"
 Device identities
  Source device: UICC
  Destination device: ME
 Alpha identifier: "80ル0"
 Item
  Identifier of item: 1
  Text string of item: "80ル1"
 Item
  Identifier of item: 2
  Text string of item: "80ル2"
 Item
  Identifier of item: 3
  Text string of item: "80ル3"
 Item
  Identifier of item: 4
  Text string of item: "80ル4"

Coding:

BER-TLV:	D0	44	81	03	01	25	00	82	02	81	82	85
09	80	00	38	00	30	30	EB	00	30	8F	0A	
01	80	00	38	00	30	30	EB	00	31	8F	0A	
02	80	00	38	00	30	30	EB	00	32	8F	0A	
03	80	00	38	00	30	30	EB	00	33	8F	0A	
04	80	00	38	00	30	30	EB	00	34			

PROACTIVE COMMAND: SET UP MENU 9.1.2

Logically:

 Command details
  Command number: 1
  Command type: SET UP MENU
  Command qualifier: "00"
 Device identities
  Source device: UICC
  Destination device: ME
 Alpha identifier: "80ル0"
 Item
  Identifier of item: "11"
  Text string of item: "80ル5"
 Item
  Identifier of item: "12"
  Text string of item: "80ル6"

Coding:

BER-TLV:	D0	2C	81	03	01	25	00	82	02	81	82	85
09	80	00	38	00	30	30	EB	00	30	8F	0A	
11	80	00	38	00	30	30	EB	00	35	8F	0A	
12	80	00	38	00	30	30	EB	00	36			

PROACTIVE COMMAND: SET UP MENU 9.1.3

Logically:

 Command details

          Command number: 1
          Command type: SET UP MENU
          Command qualifier: "00"
     Device identities
          Source device: UICC
          Destination device: ME
     Alpha identifier: Null data object
     Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 9.1.1, 9.1.2 and 9.1.3

Logically:

     Command details
          Command number: 1
          Command type: SET UP MENU
          Command qualifier: "00"
     Device identities
          Source device: ME
          Destination device: UICC
     Result
          General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 9.1.1: MENU SELECTION

Logically:

     Menu selection
          Device identities
          Source device: Keypad
          Destination device: UICC
          Item identifier   02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 9.1.2: MENU SELECTION

Logically:

     Menu selection
          Device identities
          Source device: Keypad
          Destination device: UICC
          Item identifier   12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12

27.22.4.8.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

27.22.4.9.10 SELECT ITEM (UCS2 display in Cyrillic

27.22.4.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.10.2 Conformance requirement

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.

- Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic characters, as defined in ISO/IEC 10646 [17].

27.22.4.9.10.3 Test purpose

To verify that the ME correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.10.4 Method of test

27.22.4.9.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.10.4.2   Procedure

Expected Sequence 10.1 (SELECT ITEM with UCS2 in Cyrillic characters, 0x80 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 10.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 10.1.1	
4	ME → USER	Display items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2" and "ЗДРАВСТВУЙТЕ3" under the header of "ЗДРАВСТВУЙТЕ".	["ЗДРАВСТВУЙТЕ" : "Hello" in Russian]
5	USER → ME	Select "ЗДРАВСТВУЙТЕ2"	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 10.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 10.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "ЗДРАВСТВУЙТЕ"
    Item
        Identifier of item: 1
        Text string of item: "ЗДРАВСТВУЙТЕ1"
    Item
        Identifier of item: 2
        Text string of item: "ЗДРАВСТВУЙТЕ2"
    Item
        Identifier of item: 3
        Text string of item: "ЗДРАВСТВУЙТЕ3"

Coding:

BER-TLV:	D0	81	7E	81	03	01	24	00	82	02	81	82
	85	19	80	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15	8F	1C	01	80	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15	00	31	8F	1C	02
	80	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15	00	32	8F	1C	03	80	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15	00	33			

TERMINAL RESPONSE: SELECT ITEM 10.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM

       Command qualifier: "00"
Device identities
       Source device: ME
       Destination device: UICC
Result
       General Result: Command performed successfully
Item identifier
       Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 10.2 (SELECT ITEM with UCS2 in Cyrillic characters, 0x81 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 10.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 10.2.1	
4	ME → USER	Display items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2" and "ЗДРАВСТВУЙТЕ3" under the header of "ЗДРАВСТВУЙТЕ".	["ЗДРАВСТВУЙТЕ": "Hello" in Russian]
5	USER → ME	Select "ЗДРАВСТВУЙТЕ2".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 10.2.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 10.2.1

Logically:

   Command details
       Command number: 1
       Command type: SELECT ITEM
       Command qualifier: "00"
   Device identities
       Source device: UICC
       Destination device: ME
       Alpha identifier: "ЗДРАВСТВУЙТЕ"
   Item
       Identifier of item: 1
       Text string of item: "ЗДРАВСТВУЙТЕ1"
   Item
       Identifier of item: 2
       Text string of item: "ЗДРАВСТВУЙТЕ2"
   Item
       Identifier of item: 3
       Text string of item: "ЗДРАВСТВУЙТЕ3"

Coding:

BER-TLV:	D0	53	81	03	01	24	00	82	02	81	82	85
	0F	81	0C	08	97	94	A0	90	92	A1	A2	92
	A3	99	A2	95	8F	11	01	81	0D	08	97	94
	A0	90	92	A1	A2	92	A3	99	A2	95	31	8F
	11	02	81	0D	08	97	94	A0	90	92	A1	A2
	92	A3	99	A2	95	32	8F	11	03	81	0D	08
	97	94	A0	90	92	A1	A2	92	A3	99	A2	95
	33											

TERMINAL RESPONSE: SELECT ITEM 10.2.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Item identifier
        Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 10.3 (SELECT ITEM with UCS2 in Cyrillic characters, 0x82 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 10.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 10.3.1	
4	ME → USER	Display items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2" and "ЗДРАВСТВУЙТЕ3" under the header of "ЗДРАВСТВУЙТЕ".	["ЗДРАВСТВУЙТЕ " : "Hello" in Russian]
5	USER → ME	Select "ЗДРАВСТВУЙТЕ2"	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 10.2.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 10.3.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "ЗДРАВСТВУЙТЕ"

Item
    Identifier of item: 1
    Text string of item: "ЗДРАВСТВУЙТЕ1"
Item
    Identifier of item: 2
    Text string of item: "ЗДРАВСТВУЙТЕ2"
Item
    Identifier of item: 3
    Text string of item: "ЗДРАВСТВУЙТЕ3"

Coding:

BER-TLV:	D0	57	81	03	01	24	00	82	02	81	82	85
	10	82	0C	04	10	87	84	90	80	82	91	92
	82	93	89	92	85	8F	12	01	82	0D	04	10
	87	84	90	80	82	91	92	82	93	89	92	85
	31	8F	12	02	82	0D	04	10	87	84	90	80
	82	91	92	82	93	89	92	85	32	8F	12	03
	82	0D	04	10	87	84	90	80	82	91	92	82
	93	89	92	85	33							

TERMINAL RESPONSE: SELECT ITEM 10.3.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.10.5   Test requirement

The ME shall operate in the manner defined in expected sequences 10.1 to 10.3.

27.22.4.9.11   SELECT ITEM (UCS2 display in Chinese)

27.22.4.9.11.1   Definition and applicability

See clause 3.2.2.

27.22.4.9.11.2   Conformance requirement

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.

- Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

27.22.4.9.11.3 Test purpose

To verify that the ME correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.11.4 Method of test

27.22.4.9.11.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.11.4.2 Procedure

Expected Sequence 11.1 (SELECT ITEM with UCS2 in Chinese characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 11.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 11.1.1	
4	ME → USER	Display items of "项目一", "项目二", "项目三" and "项目四" under the header of "工具箱选择".	["工具箱选择" : "Toolkit Select" in Chinese] ["项目一" : "Item 1" in Chinese] ["项目二" : "Item 2" in Chinese] ["项目三" : "Item 3" in Chinese] ["项目四" : "Item 4" in Chinese]
5	USER → ME	Select "项目二".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 11.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 11.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "工具箱选择"

Item
    Identifier of item: 1
    Text string of item: "项目一"
Item
    Identifier of item: 2
    Text string of item: "项目二"
Item
    Identifier of item: 3
    Text string of item: "项目三"
Item
    Identifier of item: 4
    Text string of item: "项目四"

Coding:

BER-TLV:	D0	3E	81	03	01	24	00	82	02	81	82	85
	0B	80	5D	E5	51	77	7B	B1	90	09	62	E9
	8F	08	01	80	98	79	76	EE	4E	00	8F	08
	02	80	98	79	76	EE	4E	8C	8F	08	03	80
	98	79	76	EE	4E	09	8F	08	04	80	98	79
	76	EE	56	DB								

TERMINAL RESPONSE: SELECT ITEM 11.1.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.11.5 Test requirement

The ME shall operate in the manner defined in expected sequence 11.1.

27.22.4.9.12 SELECT ITEM (UCS2 display in Katakana)

27.22.4.9.12.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.12.2 Conformance requirement

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.

- Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

27.22.4.9.12.3 Test purpose

To verify that the ME correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.12.4 Method of test

27.22.4.9.12.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.12.4.2 Procedure

Expected Sequence 12.1 (SELECT ITEM with UCS2 in Katakana characters, 0x80 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 12.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 12.1.1	
4	ME → USER	Display items of "80ﾚ1", "80ﾚ2" and "80ﾚ3" under the header of "80ﾚ0".	["80ﾚ0" : "80Test0" in Katakana] ["80ﾚ1" : "80Test1" in Katakana] ["80ﾚ2" : "80Test2" in Katakana] ["80ﾚ3" : "80Test3" in Katakana]
5	USER → ME	Select "80ﾚ2".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 12.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 12.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM

        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "80ﾙ0"
    Item
        Identifier of item: 1
        Text string of item: "80ﾙ1"
    Item
        Identifier of item: 2
        Text string of item: "80ﾙ2"
    Item
        Identifier of item: 3
        Text string of item: "80ﾙ3"

Coding:

BER-TLV:	D0	38	81	03	01	24	00	82	02	81	82	85
	09	80	00	38	00	30	30	EB	00	30	8F	0A
	01	80	00	38	00	30	30	EB	00	31	8F	0A
	02	80	00	38	00	30	30	EB	00	32	8F	0A
	03	80	00	38	00	30	30	EB	00	33		

TERMINAL RESPONSE: SELECT ITEM 12.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Item identifier
        Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 12.2 (SELECT ITEM with UCS2 - Katakana characters, 0x81 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 12.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 12.2.1	
4	ME → USER	Display items of "81ﾙ1", "81ﾙ2" and "81ﾙ3" under the header of "81ﾙ0".	["81ﾙ0" : "81Test0" in Katakana] ["81ﾙ1" : "81Test1" in Katakana] ["81ﾙ2" : "81Test2" in Katakana] ["81ﾙ3" : "81Test3" in Katakana]
5	USER → ME	Select "81ﾙ2".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 12.2.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 12.2.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "81ﾉﾚ0"
Item
    Identifier of item: 1
    Text string of item: "81ﾉﾚ1"
Item
    Identifier of item: 2
    Text string of item: "81ﾉﾚ2"
Item
    Identifier of item: 3
    Text string of item: "81ﾉﾚ3"

Coding:

BER-TLV:	D0	30	81	03	01	24	00	82	02	81	82	85
	07	81	04	61	38	31	EB	30	8F	08	01	81
	04	61	38	31	EB	31	8F	08	02	81	04	61
	38	31	EB	32	8F	08	03	81	04	61	38	31
	EB	33										

TERMINAL RESPONSE: SELECT ITEM 12.2.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 12.3 (SELECT ITEM with UCS2 - Katakana characters, 0x82 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 12.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 12.3.1	
4	ME → USER	Display items of "82ル1", "82ル2" and "82ル3" under the header of "82ル0".	["82ル0" : "82Test0" in Katakana] ["82ル1" : "82Test1" in Katakana] ["82ル2" : "82Test2" in Katakana] ["82ル3" : "82Test3" in Katakana]
5	USER → ME	Select "82ル2".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 12.2.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 12.3.1

Logically:

```
Command details
        Command number:        1
        Command type:          SELECT ITEM
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "82ル0"
Item
        Identifier of item:    1
        Text string of item:   "82ル1"
Item
        Identifier of item:    2
        Text string of item:   "82ル2"
Item
        Identifier of item:    3
        Text string of item:   "82ル3"
```

Coding:

BER-TLV:	D0	34	81	03	01	24	00	82	02	81	82	85
	08	82	04	30	A0	38	32	CB	30	8F	09	01
	82	04	30	A0	38	32	CB	31	8F	09	02	82
	04	30	A0	38	32	CB	32	8F	09	03	82	04
	30	A0	38	32	CB	33						

TERMINAL RESPONSE: SELECT ITEM 12.3.1

Logically:

```
Command details
        Command number:        1
        Command type:          SELECT ITEM
        Command qualifier:     "00"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Item identifier
```

Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.12.5 Test requirement

The ME shall operate in the manner defined in expected sequences 12.1 to 12.3.

27.22.4.6 POLL INTERVAL

27.22.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.6.2 Conformance requirement

The ME shall support the POLL INTERVAL command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.6, clause 6.6.6, clause 5.2, clause 8.6, clause 8.7 and clause 8.8.

27.22.4.6.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the POLL INTERVAL proactive UICC command.

To verify that the ME gives a valid response to the polling interval requested by the UICC.

To verify that the ME sends STATUS commands to the UICC at an interval no longer than the interval negotiated by the UICC.

27.22.4.6.4 Method of test

27.22.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.6.4.2 Procedure

Expected Sequence 1.1 (POLL INTERVAL, Seconds)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	[Duration: 20 seconds]
4	ME → UICC	TERMINAL RESPONSE: POLL INTERVAL 1.1.1	[Command performed successfully, duration depends on the ME"s capabilities]
5	ME → UICC	ME polls in intervals as stated in the duration TLV of TERMINAL RESPONSE: POLL INTERVAL 1.1.1	

PROACTIVE COMMAND: POLL INTERVAL 1.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          POLL INTERVAL
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
Duration
        Time unit:             Seconds
        Time interval:         20
```

Coding:

BER-TLV:	D0	0D	81	03	01	03	00	82	02	81	82	84
	02	01	14									

TERMINAL RESPONSE: POLL INTERVAL 1.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          POLL INTERVAL
        Command qualifier:     "00"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Duration
        Time unit:             Seconds
        Time interval:         20
```

Coding:

BER-TLV:	81	03	01	03	00	82	02	82	81	83	01	00
	84	02	01	14								

NOTE: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in 3GPP TS 31.111 [15], subclause 6.4.6.

27.22.4.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.4.7   REFRESH

27.22.4.7.1   REFRESH (normal)

27.22.4.7.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.7.1.2   Conformance requirement

The ME shall support the REFRESH command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 8.6, clause 8.7 and clause 8.18.

27.22.4.7.1.3   Test purpose

To verify that the ME performs the UICC initialization and / or re-reads the contents and structure of the EFs on the UICC that have been changed and / or restarts the card session by resetting the ME, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.7.1.4   Method of test

27.22.4.7.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table..

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

These values might be overwritten with values defined in the expected sequences itself.

Prior to the execution of expected sequence 1.2 the FDN service shall be enabled.

27.22.4.7.1.4.2   Procedure

Expected Sequence 1.1 (REFRESH, USIM Initialization)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH 1.1.1	[To inform the ME that FDN becomes enabled]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.1.1	
4	UICC		[New EF EST value: 01]
		EF EST contents states FDN enabled	
5	ME → UICC	USIM Initialization	[ME performs USIM initialization]
6	ME → UICC	TERMINAL RESPONSE: REFRESH 1.1.1A Or TERMINAL RESPONSE: REFRESH 1.1.1B	[additional EFs read]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	
8	USER → ME	Call setup to "321"	
9	ME → USER	Call set up not allowed	
10	USER → ME	Call setup to "123"	
11	ME → USS	Setup	Called party BCD number shall be "123"

PROACTIVE COMMAND: REFRESH 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: REFRESH
        Command qualifier: USIM Initialization
    Device identities
        Source device: UICC
        Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	03	82	02	81	82	

TERMINAL RESPONSE: REFRESH 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: REFRESH
        Command qualifier: USIM Initialization
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 1.1.1B

Logically:

    Command details
        Command number: 1
        Command type: REFRESH
        Command qualifier: USIM Initialization
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	03

Expected Sequence 1.2 (REFRESH, File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.2.1	[To inform the ME that EF FDN will be in an updated state, FDN service already enabled]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.2.1	
4	UICC	Update EF FDN RECORD 1	[EF FDN record 1 updated to contain the dialling string "0123456789"]
5	ME → UICC	TERMINAL RESPONSE: REFRESH 1.2.1A Or TERMINAL RESPONSE: REFRESH 1.2.1B	[normal ending] [additional EFs read]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Call setup to "123"	
8	ME → USER	Call set up not allowed	
9	USER → ME	Call setup to "0123456789"	
10	ME → USS	Setup	Called party BCD number shall be "0123456789"

PROACTIVE COMMAND: REFRESH 1.2.1

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: File Change Notification
Device identities
    Source device: UICC
    Destination device: ME
    File List: EF FDN

Coding:

BER-TLV:	D0	12	81	03	01	01	01	82	02	81	82	92
	07	01	3F	00	7F	FF	6F	3B				

TERMINAL RESPONSE: REFRESH 1.2.1A

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: File Change Notification
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	01	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 1.2.1B

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: File Change Notification
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	01	82	02	82	81	83	01	03

Expected Sequence 1.3 (REFRESH, USIM Initialization and File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.3.1	
4	UICC	Update EF OPLMNwACT	[EF OPLMNwACT to contain the PLMN code "98798" for GERAN as the first OPLMNwACT code]
5	ME → UICC	USIM Initialization and READ BINARY: EF OPLMNwACT	
6	ME → UICC	TERMINAL RESPONSE: REFRESH 1.3.1A Or TERMINAL RESPONSE: REFRESH 1.3.1B	[normal ending] [additional EFs read]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: REFRESH
        Command qualifier: USIM Initialization and File Change Notification
    Device identities
        Source device: UICC
        Destination device: ME
        File List: EF OPLMNwACT

Coding:

BER-TLV:	D0	12	81	03	01	01	02	82	02	81	82	92
	07	01	3F	00	7F	FF	6F	61				

TERMINAL RESPONSE: REFRESH 1.3.1A

Logically:

    Command details
        Command number: 1
        Command type: REFRESH
        Command qualifier: USIM Initialization and File Change Notification
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	02	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 1.3.1B

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization and File Change Notification
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	02	82	02	82	81	83	01	03

Expected Sequence 1.4 (REFRESH, USIM Initialization and Full File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.4.1	
4	UICC	EF EST contents states FDN enabled	[New EF EST value: 01]
5	UICC	Update EF FDN	[EF FDN record 1 updated to contain the dialling string "0123456789"]
6	ME → UICC	USIM Initialization	[ME performs USIM initialization]
7	ME → UICC	TERMINAL RESPONSE: REFRESH 1.4.1A Or TERMINAL RESPONSE: REFRESH 1.4.1B	[additional EFs read]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	Call setup to "321"	
10	ME → USER	Call set up not allowed	
11	USER → ME	Call setup to "0123456789"	
12	ME → USS	Setup	Called party BCD number shall be "0123456789"

PROACTIVE COMMAND: REFRESH 1.4.1

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization and Full File Change Notification
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	00	82	02	81	82	

TERMINAL RESPONSE: REFRESH 1.4.1A

Logically:

Command details
    Command number: 1

	Command type:	REFRESH
	Command qualifier:	USIM Initialization and Full file Change Notification
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	01	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 1.4.1B

Logically:

	Command details	
	Command number:	1
	Command type:	REFRESH
	Command qualifier:	USIM Initialization and full File change Notification
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	00	82	02	82	81	83	01	03

Expected Sequence 1.5 (REFRESH, UICC Reset)

TBD

Expected Sequence 1.6 (REFRESH, USIM Initialization after SMS-PP data download)

Step	Direction	MESSAGE / Action	Comments
1	ME	The ME shall be in its normal idle mode	[Start a sequence to verify that the ME returns the RP-ACK message back to the USS, if the UICC responds with '90 00']
2	USS → ME	SMS-PP Data Download Message 1.6.1	
3	ME → USER	The ME shall not display the message or alert the user of a short message waiting	
4	ME → USS	ENVELOPE: SMS-PP DOWNLOAD 1.6.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.1.1	
6	ME → USS	RP-ACK	
7	ME → UICC	FETCH	
8	UICC → ME	PROACTIVE COMMAND: REFRESH 1.1.1	
9	UICC	EF EST contents states FDN enabled	[New EF EST value: 01]
10	ME → UICC	USIM Initialization	[ME performs USIM initialization]
11	ME → UICC	TERMINAL RESPONSE: REFRESH 1.1.1A Or TERMINAL RESPONSE: REFRESH 1.1.1B	[additional EFs read]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Call setup to "321"	
14	ME → USER	Call set up not allowed	
15	USER → ME	Call setup to "123"	
16	ME → USS	Setup	Called party BCD number shall be "123"

SMS-PP (Data Download) Message 1.6.1

Logically:

SMS TPDU

TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the SME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	(U)SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 (U)SIM Specific Message
Alphabet	Default Alphabet
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV	04	04	91	21	43	7F	12	89	10	10	00	00
	00	00	0D	53	F4	5B	4E	07	35	CB	F3	79
	F8	5C	06									

ENVELOPE: SMS-PP DOWNLOAD 1.6.1

Logically:

SMS-PP Download
       Device identities
       Source device: Network
       Destination device: UICC
       Address
       TON   International number
       NPI   "ISDN / telephone numbering plan"
       Dialling number string   "112233445566778"
       SMS TPDU
       TP-MTI   SMS-DELIVER
       TP-MMS   No more messages waiting for the MS in this SC
       TP-RP TP-Reply-Path is not set in this SMS-DELIVER
       TP-UDHI   TP-UD field contains only the short message
       TP-SRI   A status report will not be returned to the SME
       TP-OA
       TON   International number
       NPI   "ISDN / telephone numbering plan"
       Address value   "1234"
       TP-PID   (U)SIM Data download
       TP-DCS
       Coding Group   General Data Coding
       Compression   Text is uncompressed
       Message Class   Class 2 (U)SIM Specific Message
       Alphabet   Default Alphabet
       TP-SCTS: 01/01/98 00:00:00 +0
       TP-UDL   13
       TP-UD   "Short Message"

Coding:

BER-TLV:	D1	2C	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1B	04	04	91	21	43
	7F	12	89	10	10	00	00	00	00	0D	53	F4
	5B	4E	07	35	CB	F3	79	F8	5C	06		

27.22.4.7.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.6.

27.22.4.7.2 REFRESH (IMSI changing procedure)

27.22.4.7.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.7.2.2 Conformance requirement

The ME shall support the REFRESH command as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 8.6, clause 8.7 and clause 8.18.

Additionally the ME shall support the USIM Initialization procedure as defined in:

- 3GPP TS 31.102 [xx] clause 12.2.1.

27.22.4.7.2.3 Test purpose

To verify that the ME performs the USIM initialization and / or re-reads the contents and structure of the EFs on the UICC that have been changed and / or restarts the card session by resetting the ME, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.7.2.4 Method of test

27.22.4.7.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table..

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.7.2.4.2 Procedure

Expected Sequence 2.1 (REFRESH, UICC Reset for IMSI Changing procedure)

TBD

Expected Sequence 2.2 (REFRESH, USIM Application Reset for IMSI Changing procedure)

TBD

Expected Sequence 2.3 (REFRESH, 3G Session Reset for IMSI Changing procedure)

TBD

27.22.4.7.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

27.22.4.8 SET UP MENU and ENVELOPE MENU SELECTION

27.22.4.8.1 SET UP MENU (normal) and ENVELOPE MENU SELECTION

27.22.4.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.1.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- 3GPP TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.

27.22.4.8.1.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.1.4 Method of test

27.22.4.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.1.4.2 Procedure

Expected Sequence 1.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 1.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 1.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	
9	USER → ME	Select the "Item 2" Menu entry	
10	ME → UICC	Send the ENVELOPE 1.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.2	[Second Set Up Menu, REPLACE Old Menu]
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 1.1.2	
14	ME → USER	Integrate the new menu header of "Toolkit Menu" into its menu system and have the menu items of "One" and "Two" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 1.1.2	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
18	ME → USER	Display "One", "Two"	
19	USER → ME	Select the "Two" menu entry	
20	ME → UICC	Send the ENVELOPE 1.1.2: MENU SELECTION (Identifier of item: 12)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.3 with SW1 / SW2 of '91 0F'.	[Third Set Up Menu, REMOVE Toolkit Menu]
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 1.1.3	
24	ME → USER	Remove the menu "Toolkit Menu" from its menu system.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 1.1.3	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 1.1.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Menu"
    Item
        Identifier of item:    1
        Text string of item:   "Item 1"
    Item
        Identifier of item:    2
        Text string of item:   "Item 2"
    Item
        Identifier of item:    3
        Text string of item:   "Item 3"
    Item
        Identifier of item:    4
        Text string of item:   "Item 4"
```

Coding:

BER-TLV:	D0	3B	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34											

PROACTIVE COMMAND: SET UP MENU 1.1.2

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Menu"
    Item
        Identifier of item:    "11"
        Text string of item:   "One"
    Item
        Identifier of item:    "12"
        Text string of item:   "Two"
```

Coding:

BER-TLV:	D0	23	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	04	11	4F	6E	65	8F	04	12	54	77
	6F											

PROACTIVE COMMAND: SET UP MENU 1.1.3

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 1.1.1, 1.1.2 and 1.1.3

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "no help information available"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 1.1.1: MENU SELECTION

Logically:

Menu selection
    Device identities
    Source device: Keypad
    Destination device: UICC
    Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 1.1.2: MENU SELECTION

Logically:

Menu selection
    Device identities
    Source device: Keypad
    Destination device: UICC
    Item identifier 12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12

Expected Sequence 1.2 (SET UP MENU, Large Menu with many items or with large items or with Large Alpha Identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.1	[First Large Menu with many items, Fetch of FF bytes]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 1.2.1	
4	ME → USER	Integrate the new menu header of "LargeMenu1" into its menu system and have the menu items of "Zero", "One", "Two", Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Fox-trot", "Black", "Brown", "Red", "Orange", "Yellow", "Green", "Blue", "Violet", "Grey", "White", "milli", "micro", "nano" and "pico" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 1.2.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit "LargeMenu1"	
8	ME → USER	Display "Zero", "One", "Two" … "pico"	
9	USER → ME	Select the "Orange" menu entry	
10	ME → UICC	Send the ENVELOPE 1.2.1: MENU SELECTION (Identifier of item: 0x3D)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.2	[Second Large Menu with large items, Fetch of F6 bytes]
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 1.2.2	
14	ME → USER	Integrate the new menu header of "LargeMenu2" into its menu system and have the menu items of "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls" and "7 CLI Presentation" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 1.2.2	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "LargeMenu2"	
18	ME → USER	Display "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls", "7 CLI Presentation"	
19	USER → ME	Select the "5 Barring Of All Outgoing Calls" menu entry	
20	ME → UICC	Send the ENVELOPE 1.2.2: MENU SELECTION (Identifier of item: 0xFB)	

Step	Direction	MESSAGE / Action	Comments
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.3	[Third Large Menu with a Large Alpha Identifier and only one Short Item, Fetch of FF bytes]
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 1.2.3	
24	ME → USER	Integrate the new menu header of " The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh" into it's menu system and have a menu item of "Y" under this header.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 1.2.3	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh".	
28	ME → USER	Display "Y"	
29	USER → ME	Select the item "Y"	
30	ME → UICC	Send the ENVELOPE 1.2.3: MENU SELECTION (Identifier of item: 1)	

PROACTIVE COMMAND: SET UP MENU 1.2.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha Identifier:      "LargeMenu1"
Item
        Identifier of item:    "50"
        Text string of item:   "Zero"
Item
        Identifier of item:    "4F"
        Text string of item:   "One"
Item
        Identifier of item:    "4E"
        Text string of item:   "Two"
Item
        Identifier of item:    "4D"
        Text string of item:   "Three"
Item
        Identifier of item:    "4C"
        Text string of item:   "Four"
Item
```

	Identifier of item:	"4B"
	Text string of item:	"Five"
Item		
	Identifier of item:	"4A"
	Text string of item:	"Six"
Item		
	Identifier of item:	"49"
	Text string of item:	"Seven"
Item		
	Identifier of item:	"48"
	Text string of item:	"Eight"
Item		
	Identifier of item:	"47"
	Text string of item:	"Nine"
Item		
	Identifier of item:	"46"
	Text string of item:	"Alpha"
Item		
	Identifier of item:	"45"
	Text string of item:	"Bravo"
Item		
	Identifier of item:	"44"
	Text string of item:	"Charlie"
Item		
	Identifier of item:	"43"
	Text string of item:	"Delta"
Item		
	Identifier of item:	"42"
	Text string of item:	"Echo"
Item		
	Identifier of item:	"41"
	Text string of item:	"Fox-trot"
Item		
	Identifier of item:	"40"
	Text string of item:	"Black"
Item		
	Identifier of item:	"3F"
	Text string of item:	"Brown"
Item		
	Identifier of item:	"3E"
	Text string of item:	"Red"
Item		
	Identifier of item:	"3D"
	Text string of item:	"Orange"
Item		
	Identifier of item:	"3C"
	Text string of item:	"Yellow"
Item		
	Identifier of item:	"3B"
	Text string of item:	"Green"
Item		
	Identifier of item:	"3A"
	Text string of item:	"Blue"
Item		
	Identifier of item:	"39"
	Text string of item:	"Violet"
Item		
	Identifier of item:	"38"
	Text string of item:	"Grey"
Item		
	Identifier of item:	"37"
	Text string of item:	"White"

Item
        Identifier of item: "36"
        Text string of item: "milli"
Item
        Identifier of item: "35"
        Text string of item: "micro"
Item
        Identifier of item: "34"
        Text string of item: "nano"
Item
        Identifier of item: "33"
        Text string of item: "pico"

Coding:

BER-TLV:	D0	81	FC	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	31
	8F	05	50	5A	65	72	6F	8F	04	4F	4F	6E
	65	8F	04	4E	54	77	6F	8F	06	4D	54	68
	72	65	65	8F	05	4C	46	6F	75	72	8F	05
	4B	46	69	76	65	8F	04	4A	53	69	78	8F
	06	49	53	65	76	65	6E	8F	06	48	45	69
	67	68	74	8F	05	47	4E	69	6E	65	8F	06
	46	41	6C	70	68	61	8F	06	45	42	72	61
	76	6F	8F	08	44	43	68	61	72	6C	69	65
	8F	06	43	44	65	6C	74	61	8F	05	42	45
	63	68	6F	8F	09	41	46	6F	78	2D	74	72
	6F	74	8F	06	40	42	6C	61	63	6B	8F	06
	3F	42	72	6F	77	6E	8F	04	3E	52	65	64
	8F	07	3D	4F	72	61	6E	67	65	8F	07	3C
	59	65	6C	6C	6F	77	8F	06	3B	47	72	65
	65	6E	8F	05	3A	42	6C	75	65	8F	07	39
	56	69	6F	6C	65	74	8F	05	38	47	72	65
	79	8F	06	37	57	68	69	74	65	8F	06	36
	6D	69	6C	6C	69	8F	06	35	6D	69	63	72
	6F	8F	05	34	6E	61	6E	6F	8F	05	33	70
	69	63	6F									

PROACTIVE COMMAND: SET UP MENU 1.2.2

Logically:

Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
Device identities
        Source device: UICC
        Destination device: ME
        Alpha Identifier: "LargeMenu2"
Item
        Identifier of item: "FF"
        Text string of item: "1 Call Forward Unconditional"
Item
        Identifier of item: "FE"
        Text string of item: "2 Call Forward On User Busy"
Item
        Identifier of item: "FD"
        Text string of item: "3 Call Forward On No Reply"
Item
        Identifier of item: "FC"
        Text string of item: "4 Call Forward On User Not Reachable"
Item

	Identifier of item:	"FB"
	Text string of item:	"5 Barring Of All Outgoing Calls"
Item		
	Identifier of item:	"FA"
	Text string of item:	"6 Barring Of All Outgoing Int Calls"
Item		
	Identifier of item:	"F9"
	Text string of item:	"7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	32
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						

PROACTIVE COMMAND: SET UP MENU 1.2.3

Logically:

	Command details	
	Command number:	1
	Command type:	SET UP MENU
	Command qualifier:	"00"
	Device identities	
	Source device:	UICC
	Destination device:	ME
	Alpha Identifier:	"The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh"
Item		
	Identifier of item:	"01"
	Text string of item:	"Y"

Coding:

BER-TLV:	D0	81	FC	81	03	01	25	00	82	02	81	82
	85	81	EC	54	68	65	20	53	49	4D	20	73
	68	61	6C	6C	20	73	75	70	70	6C	79	20
	61	20	73	65	74	20	6F	66	20	6D	65	6E
	75	20	69	74	65	6D	73	2C	20	77	68	69
	63	68	20	73	68	61	6C	6C	20	62	65	20
	69	6E	74	65	67	72	61	74	65	64	20	77
	69	74	68	20	74	68	65	20	6D	65	6E	75
	20	73	79	73	74	65	6D	20	28	6F	72	20
	6F	74	68	65	72	20	4D	4D	49	20	66	61
	63	69	6C	69	74	79	29	20	69	6E	20	6F
	72	64	65	72	20	74	6F	20	67	69	76	65
	20	74	68	65	20	75	73	65	72	20	74	68
	65	20	6F	70	70	6F	72	74	75	6E	69	74
	79	20	74	6F	20	63	68	6F	6F	73	65	20
	6F	6E	65	20	6F	66	20	74	68	65	73	65
	20	6D	65	6E	75	20	69	74	65	6D	73	20
	61	74	20	68	69	73	20	6F	77	6E	20	64
	69	73	63	72	65	74	69	6F	6E	2E	20	45
	61	63	68	20	69	74	65	6D	20	63	6F	6D
	70	72	69	73	65	73	20	61	20	73	68	8F
	02	01	59									

TERMINAL RESPONSE: SET UP MENU 1.2.1, 1.2.2 and 1.2.3

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "no help information available"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 1.2.1: MENU SELECTION

Logically:

```
Menu selection
        Device identities
        Source device:         Keypad
        Destination device:    UICC
        Item identifier        3D
```

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	3D

ENVELOPE 1.2.2: MENU SELECTION

Logically:

    Menu selection
            Device identities
            Source device: Keypad
            Destination device: UICC
            Item identifier   FB

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	FB

ENVELOPE 1.2.3: MENU SELECTION

Logically:

    Menu selection
            Device identities
            Source device: Keypad
            Destination device: UICC
            Item identifier   01

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	01

The following table details the test requirements with relation to the tested features:

Proactive UICC Command Number	Proactive UICC Command Facilities		
	Alpha Identifier Length	Number of items	Maximum length of item
1.1.1	12	4	6
1.1.2	12	2	3
1.1.3	10	0	-
1.2.1	10	30	8
1.2.2	10	7	37
1.2.3	235	1	1

27.22.4.8.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1 and in expected sequence 1.2.

27.22.4.8.2 SET UP MENU (help request support) and ENVELOPE MENU SELECTION

27.22.4.8.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.2.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP TS 31.111 [15] clause 8.21.

27.22.4.8.2.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.2.4   Method of test

27.22.4.8.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.2.4.2   Procedure

Expected Sequence 2.1 (SET UP MENU and MENU SELECTION, with Help Request, Replace and Remove a Toolkit Menu)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 2.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 2.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 2.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	
9	USER → ME	Select the Help Request on "Item 2" Menu entry	
10	ME → UICC	Send the ENVELOPE 2.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 2.1.1

Logically:

        Command details
                Command number: 1
                Command type: SET UP MENU
                Command qualifier: "80"
        Device identities
                Source device: UICC
                Destination device: ME
                Alpha identifier: "Toolkit Menu"
        Item
                Identifier of item: 1
                Text string of item: "Item 1"

Item
    Identifier of item: 2
    Text string of item: "Item 2"
Item
    Identifier of item: 3
    Text string of item: "Item 3"
    Item
    Identifier of item: 4
    Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3B	81	03	01	25	80	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34											

TERMINAL RESPONSE: SET UP MENU 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: " help information available"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	80	82	02	82	81	83	01	00

ENVELOPE 2.1.1: MENU SELECTION

Logically:

    Menu selection
        Device identities
        Source device: Keypad
        Destination device: UICC
        Item identifier   02
        Help request tag

Coding:

BER-TLV:	D3	09	82	02	01	81	90	01	02	15	00

27.22.4.8.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.8.3   SET UP MENU (next action support) and ENVELOPE MENU SELECTION

27.22.4.8.3.1   Definition and applicability

See clause 3.2.2.

If the UICC provides an Items Next Action Indicator data object, the comprehension required flag shall be set to '0'.

27.22.4.8.3.2   Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP TS 31.111 [15] clause 8.24.

27.22.4.8.3.3   Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the next action indicator is supported.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.3.4   Method of test

27.22.4.8.3.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.3.4.2   Procedure

Expected Sequence 3.1 (SET UP MENU, next action indicator "Send SM", "Set Up Call", "Launch Browser", "Provide Local Information", successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 3.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 3.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 3.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	The ME may indicate to the user the consequences of performing the selection of an item.
9	USER → ME	Navigate in the items, then select "Item 2".	The ME may indicate to the user the consequences of performing the selection of an item.
10	ME → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

ENVELOPE 3.1.1: MENU SELECTION

Logically:

Menu selection
        Device identities
        Source device: Keypad
        Destination device: UICC
        Item identifier   02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02		

PROACTIVE COMMAND: SET UP MENU 3.1.1

Logically:

Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Menu"
Item
        Identifier of item: 1
        Text string of item: "Item 1"
Item
        Identifier of item: 2
        Text string of item: "Item 2"
Item
        Identifier of item: 3
        Text string of item: "Item 3"
Item
        Identifier of item: 4
        Text string of item: "Item 4"
Items next action indicator list
        List: "Send SM", "Set Up Call", "Launch Browser", "Provide Local Information"

Coding:

BER-TLV:	D0	41	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34	18	04	13	10	15	26					

TERMINAL RESPONSE: SET UP MENU 3.1.1

Logically:

Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "no help information available"
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.8.4 SET UP MENU (display of icons) and ENVELOPE MENU SELECTION

27.22.4.8.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clause 6.5.4, 8.31 and 8.32.

27.22.4.8.4.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that icons are displayed with the command Set Up Menu in the Alpha Identifier and Items Data Objects. To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.4.4 Method of test

27.22.4.8.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.4.4.2   Procedure

Expected Sequence 4.1A (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 4.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 4.1.1A	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	Verify the icon is displayed with alpha id.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	
9	USER → ME	Navigate in the items, then select "Item 2".	Verify icons are displayed for each item.
10	ME → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Menu"
    Item
        Identifier of item: 1
        Text string of item: "Item 1"
    Item
        Identifier of item: 2
        Text string of item: "Item 2"
    Item
        Identifier of item: 3
        Text string of item: "Item 3"
    Icon identifier
        Icon qualifier: icon is not self explanatory
        Icon identifier: record 1 EF (IMG)
    Item icon identifier list
        Icon qualifier: icon is not self explanatory
        Icon identifier list: record 5 EF (IMG), record 5 EF (IMG), record 5 EF (IMG)

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	9E	02	01	01	9F	04	01	05
	05	05										

TERMINAL RESPONSE: SET UP MENU 4.1.1A

Logically:

```
Command details
      Command number:        1
      Command type:          SET UP MENU
      Command qualifier:     "no help information available"
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

Expected Sequence 4.1B (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 4.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 4.1.1B	[Command performed successfully, but requested icon could not be displayed]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3" under the header "Toolkit Menu".	Verify that either for the header or for each of the items no icon is displayed
9	USER → ME	Navigate in the items, then select "Item 2".	no icon is displayed for each item.
10	ME → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

TERMINAL RESPONSE: SET UP MENU 4.1.1B

Logically:

```
Command details
      Command number:        1
      Command type:          SET UP MENU
      Command qualifier:     "no help information available"
Device identities
      Source device:         ME
```

Destination device: UICC

Result

    General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	04

Expected Sequence 4.2A (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.2.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 4.2.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 4.2.1A	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	Verify the icon is displayed in alpha id.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	
9	USER → ME	Navigate in the items, then select "Item 2".	Verify icons are displayed for each item.
10	ME → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 4.2.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu"
Item
    Identifier of item: 1
    Text string of item: "Item 1"
Item
    Identifier of item: 2
    Text string of item: "Item 2"
Item
    Identifier of item: 3
    Text string of item: "Item 3"
Icon identifier
    Icon qualifier: icon is self explanatory
    Icon identifier: record 1 EF (IMG)
Item icon identifier list
    Icon qualifier: icon is self explanatory
    Icon identifier list: record 5 EF (IMG), record 5 EF (IMG), record 5 EF (IMG)

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	9E	02	00	01	9F	04	00	05
	05	05										

TERMINAL RESPONSE: SET UP MENU 4.2.1A

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "no help information available"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

Expected Sequence 4.2B (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.2.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 4.2.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 4.2.1B	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3" under the header 'Toolkit Menu'.	Verify that either for the header or for each of the items no icon is displayed
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

TERMINAL RESPONSE: SET UP MENU 4.2.1B

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU

	Command qualifier:	"no help information available"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	04

27.22.4.8.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1A to 4.2B.

27.22.4.8.5 SET UP MENU (soft keys support) and ENVELOPE MENU SELECTION

27.22.4.8.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1.

27.22.4.8.5.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that if soft key preferred is indicated in the command details and soft key for SET UP MENU is supported by the ME and the number of icon items does not exceed the number of soft keys available, then the ME displays those icons as soft key.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.5.4 Method of test

27.22.4.8.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.5.4.2 Procedure

Expected Sequence 5.1 (SET UP MENU, SOFT KEY PREFERRED, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 5.1.1	[First Set Up Menu]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 5.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 5.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2"	
9	USER → ME	Navigate in the items, then select "Item 2".	Verify we can select items through soft keys
10	ME → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "01" (selection using soft key preferred)
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Menu"
    Item
        Identifier of item: 1
        Text string of item: "Item 1"
    Item
        Identifier of item: 2
        Text string of item: "Item 2"

Coding:

BER-TLV:	D0	29	81	03	01	25	01	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32					

TERMINAL RESPONSE: SET UP MENU 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "no help information available"
    Device identities
        Source device: ME

	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.8.6 SET UP MENU (support of Text Attribute) and ENVELOPE MENU SELECTION

27.22.4.8.6.1 SET UP MENU (support of Text Attribute – Left Alignment) and ENVELOPE MENU SELECTION

27.22.4.8.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.1.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.1.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the left alignment text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.1.4 Method of test

27.22.4.8.6.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.1.4.2 Procedure

Expected Sequence 6.1 (SET UP MENU, Text Attribute – Left Alignment, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.1.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify the text attribute of the alpha id is displayed with left alignment.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify text attribute of each item are displayed with left alignment.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.1.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.1.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.1.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify the text attribute of the alpha id is displayed without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/9, no alignment change will take place.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify text attribute of each item are displayed without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/9, no alignment change will take place.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	

PROACTIVE COMMAND: SET UP MENU 6.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"

Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu 1"
Item
    Identifier of item: 1
    Text string of item: "Item 1"
Item
    Identifier of item: 2
    Text string of item: "Item 2"
Item
    Identifier of item: 3
    Text string of item: "Item 3"
Text Attribute
    Formatting position: 0
    Formatting length: 14
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
    Item #3
    Formatting position: 0
    Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	00	B4
	D1	0C	00	06	00	B4	00	06	00	B4	00	06
	00	B4										

TERMINAL RESPONSE: SET UP MENU 6.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.1.2

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu 2"
Item
    Identifier of item: 4
    Text string of item: "Item 4"
Item
    Identifier of item: 5
    Text string of item: "Item 5"
Item
    Identifier of item: 6
    Text string of item: "Item 6"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36						

ENVELOPE 6.1.1: MENU SELECTION

Logically:

Menu selection
    Device identities
    Source device: Keypad
    Destination device: UICC
    Item identifier   02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02		

ENVELOPE 6.1.2: MENU SELECTION

Logically:

Menu selection
    Device identities
    Source device: Keypad
    Destination device: UICC
    Item identifier   05

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	05		

27.22.4.8.6.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.8.6.2   SET UP MENU (support of Text Attribute – Center Alignment) and ENVELOPE MENU SELECTION

27.22.4.8.6.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.8.6.2.2   Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.2.3   Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the center alignment text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.2.4   Method of test

27.22.4.8.6.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.2.4.2   Procedure

Expected Sequence 6.2 (SET UP MENU, Text Attribute – Center Alignment, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.2.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.2.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify the text attribute of the alpha id is displayed with center alignment.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify text attribute of each item are displayed with center alignment.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.2.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.2.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.2.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify the text attribute of the alpha id is displayed without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/9,, no alignment change will take place.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify text attribute of each item are displayed without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/9,, no alignment change will take place.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	

PROACTIVE COMMAND: SET UP MENU 6.2.1

Logically:

   Command details
      Command number: 1
      Command type: SET UP MENU
      Command qualifier: "00"

Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu 1"
Item
    Identifier of item: 1
    Text string of item: "Item 1"
Item
    Identifier of item: 2
    Text string of item: "Item 2"
Item
    Identifier of item: 3
    Text string of item: "Item 3"
Text Attribute
    Formatting position: 0
    Formatting length: 14
    Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
    Item #3
    Formatting position: 0
    Formatting length: 6
Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	01	B4
	D1	0C	00	06	01	B4	00	06	01	B4	00	06
	01	B4										

TERMINAL RESPONSE: SET UP MENU 6.2.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.2.2

Logically:

Command details
  Command number: 1
  Command type: SET UP MENU
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: ME
  Alpha identifier: "Toolkit Menu 2"
Item
  Identifier of item: 4
  Text string of item: "Item 4"
Item
  Identifier of item: 5
  Text string of item: "Item 5"
Item
  Identifier of item: 6
  Text string of item: "Item 6"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36						

27.22.4.8.6.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.2.

27.22.4.8.6.3   SET UP MENU (support of Text Attribute – Right Alignment) and ENVELOPE MENU SELECTION

27.22.4.8.6.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.8.6.3.2   Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.3.3   Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the right alignment text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.3.4   Method of test

27.22.4.8.6.3.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.3.4.2 Procedure

Expected Sequence 6.3 (SET UP MENU, Text Attribute – Right Alignment, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.3.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.3.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	Verify the text attribute of the alpha id is displayed with right alignment.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify text attribute of each item are displayed with right alignment.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.3.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.3.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.3.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify the text attribute of the alpha id is displayed without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/9,, no alignment change will take place.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify text attribute of each item are displayed without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/9,, no alignment change will take place.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	

PROACTIVE COMMAND: SET UP MENU 6.3.1

Logically:

Command details
      Command number: 1
      Command type: SET UP MENU
      Command qualifier: "00"

Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu 1"
Item
    Identifier of item: 1
    Text string of item: "Item 1"
Item
    Identifier of item: 2
    Text string of item: "Item 2"
Item
    Identifier of item: 3
    Text string of item: "Item 3"
Text Attribute
    Formatting position: 0
    Formatting length: 14
    Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
    Item #3
    Formatting position: 0
    Formatting length: 6
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Text colour: Foreground: black, background: white

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	02	B4
	D1	0C	00	06	02	B4	00	06	02	B4	00	06
	02	B4										

TERMINAL RESPONSE: SET UP MENU 6.3.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.3.2

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu 2"
Item
    Identifier of item: 4
    Text string of item: "Item 4"
Item
    Identifier of item: 5
    Text string of item: "Item 5"
Item
    Identifier of item: 6
    Text string of item: "Item 6"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36						

27.22.4.8.6.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.3.

27.22.4.8.6.4 SET UP MENU (support of Text Attribute – Large Font Size) and ENVELOPE MENU SELECTION

27.22.4.8.6.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.4.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the large font size text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.4.4   Method of test

27.22.4.8.6.4.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.4.4.2   Procedure

Expected Sequence 6.4 (SET UP MENU, Text Attribute – Large Font Size, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with large font size.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with large font size.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify that the alpha id is displayed with normal font size.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify that each item is displayed with normal font size.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.1	
24	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with large font size.

28	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with large font size.
29	USER → ME	Navigate in the items, then select "Item 2".	
30	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	ME → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	[Command Performed Successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	USER → ME	Select the Toolkit Menu "Toolkit Menu 3"	Verify that the alpha id is displayed with normal font size.
38	ME → USER	Display "Item 7", "Item 8", "Item 9".	Verify that each item is displayed with normal font size.
39	USER → ME	Navigate in the items, then select "Item 8".	
40	ME → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.4.1

Logically:

    Command details
            Command number: 1
            Command type: SET UP MENU
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: ME
            Alpha identifier: "Toolkit Menu 1"
    Item
            Identifier of item: 1
            Text string of item: "Item 1"
    Item
            Identifier of item: 2
            Text string of item: "Item 2"
    Item
            Identifier of item: 3
            Text string of item: "Item 3"
    Text Attribute
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item Text Attribute List
            Text Attribute List:
            Item #1
            Formatting position: 0
            Formatting length: 6
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	04	B4
	D1	0C	00	06	04	B4	00	06	04	B4	00	06
	04	B4										

TERMINAL RESPONSE: SET UP MENU 6.4.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.4.2

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu 2"
Item
    Identifier of item: 4
    Text string of item: "Item 4"
Item
    Identifier of item: 5
    Text string of item: "Item 5"
Item
    Identifier of item: 6
    Text string of item: "Item 6"
Text Attribute
    Formatting position: 0

Formatting length:	14	
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
    Text Attribute List:
    Item #1

Formatting position:	0
Formatting length:	6
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

    Item #2

Formatting position:	0
Formatting length:	6
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

    Item #3

Formatting position:	0
Formatting length:	6
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36	D0	04	00	0E	00	B4
	D1	0C	00	06	00	B4	00	06	00	B4	00	06
	00	B4										

PROACTIVE COMMAND: SET UP MENU 6.4.3

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Menu 3"
Item
    Identifier of item: 7
    Text string of item: "Item 7"
Item
    Identifier of item: 8
    Text string of item: "Item 8"
Item
    Identifier of item: 9
    Text string of item: "Item 9"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	33	8F	07	07	49	74	65	6D	20	37
	8F	07	08	49	74	65	6D	20	38	8F	07	09
	49	74	65	6D	20	39						

ENVELOPE 6.4.1: MENU SELECTION

Logically:

Menu selection
      Device identities
      Source device: Keypad
      Destination device: UICC
      Item identifier   08

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	08		

27.22.4.8.6.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.4.

27.22.4.8.6.5 SET UP MENU (support of Text Attribute – Small Font Size) and ENVELOPE MENU SELECTION

27.22.4.8.6.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.5.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the with small font size text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.5.4 Method of test

27.22.4.8.6.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.5.4.2 Procedure

Expected Sequence 6.5 (SET UP MENU, Text Attribute – Small Font Size, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.5.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with small font size.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with small font size.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify that the alpha id is displayed with normal font size.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify that each item is displayed with normal font size.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.5.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.5.1	
24	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with small font size.

28	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with small font size.
29	USER → ME	Navigate in the items, then select "Item 2".	
30	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	ME → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	[Command Performed Successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	USER → ME	Select the Toolkit Menu "Toolkit Menu 3"	Verify that the alpha id is displayed with normal font size.
38	ME → USER	Display "Item 7", "Item 8", "Item 9".	Verify that each item is displayed with normal font size.
39	USER → ME	Navigate in the items, then select "Item 8".	
40	ME → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.5.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Menu 1"
Item
        Identifier of item:    1
        Text string of item:   "Item 1"
Item
        Identifier of item:    2
        Text string of item:   "Item 2"
Item
        Identifier of item:    3
        Text string of item:   "Item 3"
Text Attribute
        Formatting position:   0
        Formatting length:     14
        Formatting mode:       Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:                        Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
        Text Attribute List:
        Item #1
        Formatting position:   0
        Formatting length:     6
Formatting mode:               Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:                        Dark Green Foreground, Bright Yellow Background
```

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	08	B4
	D1	0C	00	06	08	B4	00	06	08	B4	00	06
	08	B4										

TERMINAL RESPONSE: SET UP MENU 6.5.1

Logically:

Command details
        Command number: 1
        Command type: SET UP MENU
        Command qualifier: "00"
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.5.

27.22.4.8.6.6   SET UP MENU (support of Text Attribute – Bold On) and ENVELOPE MENU SELECTION

27.22.4.8.6.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.8.6.6.2   Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.6.3   Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.6.4 Method of test

27.22.4.8.6.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.6.4.2   Procedure

Expected Sequence 6.6 (SET UP MENU, Text Attribute – Bold On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.6.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with bold on.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with bold on.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify that the alpha id is displayed with bold off.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify that each item is displayed with bold off.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.6.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.6.1	
24	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with bold on.
28	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with bold on.

29	USER → ME	Navigate in the items, then select "Item 2".	
30	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	ME → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	[Command Performed Successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	USER → ME	Select the Toolkit Menu "Toolkit Menu 3"	Verify that the alpha id is displayed with bold off.
38	ME → USER	Display "Item 7", "Item 8", "Item 9".	Verify that each item is displayed with bold off.
39	USER → ME	Navigate in the items, then select "Item 8".	
40	ME → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.6.1

Logically:

    Command details
            Command number: 1
            Command type: SET UP MENU
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: ME
            Alpha identifier: "Toolkit Menu 1"
    Item
            Identifier of item: 1
            Text string of item: "Item 1"
    Item
            Identifier of item: 2
            Text string of item: "Item 2"
    Item
            Identifier of item: 3
            Text string of item: "Item 3"
    Text Attribute
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item Text Attribute List
            Text Attribute List:
            Item #1
            Formatting position: 0
            Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
            Item #2
            Formatting position: 0
            Formatting length: 6

ETSI

	Formatting mode:	Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background
	Item #3	
	Formatting position:	0
	Formatting length:	6
	Formatting mode:	Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	10	B4
	D1	0C	00	06	10	B4	00	06	10	B4	00	06
	10	B4										

TERMINAL RESPONSE: SET UP MENU 6.6.1

Logically:

	Command details	
	Command number:	1
	Command type:	SET UP MENU
	Command qualifier:	"00"
	Device identities	
	Source device:	ME
	Destination device:	UICC
	Result	
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.6.

27.22.4.8.6.7 SET UP MENU (support of Text Attribute – Italic On) and ENVELOPE MENU SELECTION

27.22.4.8.6.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.7.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.7.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.7.4   Method of test

27.22.4.8.6.7.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.7.4.2   Procedure

Expected Sequence 6.7 (SET UP MENU, Text Attribute – Italic On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.7.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with italics on.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with italics on.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify that the alpha id is displayed with italics off.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify that each item is displayed with italics off.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.7.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.7.1	
24	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with italics on.

28	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with italics on.
29	USER → ME	Navigate in the items, then select "Item 2".	
30	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	ME → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	[Command Performed Successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	USER → ME	Select the Toolkit Menu "Toolkit Menu 3"	Verify that the alpha id is displayed with italics off.
38	ME → USER	Display "Item 7", "Item 8", "Item 9".	Verify that each item is displayed with italics off.
39	USER → ME	Navigate in the items, then select "Item 8".	
40	ME → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.7.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Menu 1"
Item
        Identifier of item:    1
        Text string of item:   "Item 1"
Item
        Identifier of item:    2
        Text string of item:   "Item 2"
Item
        Identifier of item:    3
        Text string of item:   "Item 3"
Text Attribute
        Formatting position:   0
        Formatting length:     14
        Formatting mode:       Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Colour:                        Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
        Text Attribute List:
        Item #1
        Formatting position:   0
        Formatting length:     6
Formatting mode:               Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Colour:                        Dark Green Foreground, Bright Yellow Background
```

Item #2
Formatting position:	0
Formatting length:	6
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position:	0
Formatting length:	6
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	20	B4
	D1	0C	00	06	20	B4	00	06	20	B4	00	06
	20	B4										

TERMINAL RESPONSE: SET UP MENU 6.7.1

Logically:

Command details
Command number:	1
Command type:	SET UP MENU
Command qualifier:	"00"
Device identities
Source device:	ME
Destination device:	UICC
Result
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.7.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.7.

27.22.4.8.6.8   SET UP MENU (support of Text Attribute – Underline On) and ENVELOPE MENU SELECTION

27.22.4.8.6.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.8.6.8.2   Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.8.3   Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.8.4   Method of test

27.22.4.8.6.8.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.8.4.2 Procedure

Expected Sequence 6.8 (SET UP MENU, Text Attribute – Underline On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.8.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with underline on.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with underline on.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify that the alpha id is displayed with underline off.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify that each item is displayed with underline off.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.8.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.8.1	
24	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with underline on.

28	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with underline on.
29	USER → ME	Navigate in the items, then select "Item 2".	
30	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	ME → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	[Command Performed Successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	USER → ME	Select the Toolkit Menu "Toolkit Menu 3"	Verify that the alpha id is displayed with underline off.
38	ME → USER	Display "Item 7", "Item 8", "Item 9".	Verify that each item is displayed with underline off.
39	USER → ME	Navigate in the items, then select "Item 8".	
40	ME → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.8.1

Logically:

```
    Command details
            Command number:        1
            Command type:          SET UP MENU
            Command qualifier:     "00"
    Device identities
            Source device:         UICC
            Destination device:    ME
            Alpha identifier:      "Toolkit Menu 1"
    Item
            Identifier of item:    1
            Text string of item:   "Item 1"
    Item
            Identifier of item:    2
            Text string of item:   "Item 2"
    Item
            Identifier of item:    3
            Text string of item:   "Item 3"
    Text Attribute
            Formatting position:   0
            Formatting length:     14
            Formatting mode:       Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour:                        Dark Green Foreground, Bright Yellow Background
    Item Text Attribute List
            Text Attribute List:
            Item #1
            Formatting position:   0
            Formatting length:     6
    Formatting mode:               Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour:                        Dark Green Foreground, Bright Yellow Background
```

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	40	B4
	D1	0C	00	06	40	B4	00	06	40	B4	00	06
	40	B4										

TERMINAL RESPONSE: SET UP MENU 6.8.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.8.

27.22.4.8.6.9 SET UP MENU (support of Text Attribute – Strikethrough On) and ENVELOPE MENU SELECTION

27.22.4.8.6.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.9.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.9.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.9.4   Method of test

27.22.4.8.6.9.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.9.4.2 Procedure

Expected Sequence 6.9 (SET UP MENU, Text Attribute – Strikethrough On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.9.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with strikethrough on.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with strikethrough on.
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	ME → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 2"	Verify that the alpha id is displayed with strikethrough off.
18	ME → USER	Display "Item 4", "Item 5", "Item 6".	Verify that each item is displayed with strikethrough off.
19	USER → ME	Navigate in the items, then select "Item 5".	
20	ME → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.9.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.9.1	
24	ME → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	[Command Performed Successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "Toolkit Menu 1"	Verify that the alpha id is displayed with strikethrough on.

28	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is displayed with strikethrough on.
29	USER → ME	Navigate in the items, then select "Item 2".	
30	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	ME → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	[Command Performed Successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	USER → ME	Select the Toolkit Menu "Toolkit Menu 3"	Verify that the alpha id is displayed with strikethrough off.
38	ME → USER	Display "Item 7", "Item 8", "Item 9".	Verify that each item is displayed with strikethrough off.
39	USER → ME	Navigate in the items, then select "Item 8".	
40	ME → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.9.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP MENU
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Menu 1"
Item
        Identifier of item:    1
        Text string of item:   "Item 1"
Item
        Identifier of item:    2
        Text string of item:   "Item 2"
Item
        Identifier of item:    3
        Text string of item:   "Item 3"
Text Attribute
        Formatting position:   0
        Formatting length:     14
        Formatting mode:       Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour:                        Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
        Text Attribute List:
        Item #1
        Formatting position:   0
        Formatting length:     6
Formatting mode:               Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour:                        Dark Green Foreground, Bright Yellow Background
```

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background
Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	80	B4
	D1	0C	00	06	80	B4	00	06	80	B4	00	06
	80	B4										

TERMINAL RESPONSE: SET UP MENU 6.9.1

Logically:

Command details
    Command number: 1
    Command type: SET UP MENU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.9.

27.22.4.8.6.10   SET UP MENU (support of Text Attribute – Foreground and Background Colour) and ENVELOPE MENU SELECTION

27.22.4.8.6.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.8.6.10.2   Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

• 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.10.3   Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.10.4   Method of test

27.22.4.8.6.10.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.8.6.10.4.2   Procedure

Expected Sequence 6.10 (SET UP MENU, Text Attribute – Foreground and Background Colour, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.10.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.10.1	[Command Performed Successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	Verify that the alpha id is formatted according to the foreground and background colour text attribute configuration
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	Verify that each item is formatted according to the foreground and background colour text attribute configuration]
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → ME	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND SET UP MENU 6.4.3	
14	ME → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
15	ME → UICC	TERMINAL RESPONSE: SET UP MENU 6.10.1	[Command Performed Successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu 3"	Verify that the alpha id is formatted with the ME"s default foreground and background colour]
18	ME → USER	Display "Item 7", "Item 8", "Item 9".	Verify that each item is formatted with the ME"s default foreground and background colour
19	USER → ME	Navigate in the items, then select "Item 8".	
20	ME → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.10.1

Logically:

Command details
  Command number: 1
  Command type: SET UP MENU
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: ME
  Alpha identifier: "Toolkit Menu"
Item
  Identifier of item: 1
  Text string of item: "Item 1"
Item
  Identifier of item: 2
  Text string of item: "Item 2"
Item
  Identifier of item: 3
  Text string of item: "Item 3"
Text Attribute
  Formatting position: 0
  Formatting length: 12
  Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
  Text Attribute List:
  Item #1
  Formatting position: 0
  Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
  Item #2
  Formatting position: 0
  Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background
  Item #3
  Formatting position: 0
  Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	46	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	D0	04	00	0C	00	B4	D1	0C
	00	06	00	B4	00	06	00	B4	00	06	00	B4

TERMINAL RESPONSE: SET UP MENU 6.10.1

Logically:

Command details
  Command number: 1
  Command type: SET UP MENU
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.10.

27.22.4.9 SELECT ITEM

27.22.4.9.1 SELECT ITEM (mandatory features for ME supporting SELECT ITEM)

27.22.4.9.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.1.2 Conformance requirement

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.

27.22.4.9.1.3 Test purpose

To verify that the ME correctly presents the set of items contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.1.4 Method of test

27.22.4.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.1.4.2   Procedure

Expected Sequence 1.1 (SELECT ITEM, mandatory features, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 1.1.1	
4	ME → USER	Display items of "Item 1", "Item 2", "Item 3" and "Item 4" under the header of "Toolkit Select".	
5	USER → ME	Select "Item 2".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 1.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Select"
    Item
        Identifier of item: 1
        Text string of item: "Item 1"
    Item
        Identifier of item: 2
        Text string of item: "Item 2"
    Item
        Identifier of item: 3
        Text string of item: "Item 3"
    Item
        Identifier of item: 4
        Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	8F	07	04	49	74	65
	6D	20	34									

TERMINAL RESPONSE: SELECT ITEM 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result

    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 1.2 (SELECT ITEM, large menu, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 1.2.1	
4	ME → USER	Present the items of "Zero", "One", "Two", Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Fox-trot", "Black", "Brown", "Red", "Orange", "Yellow", "Green", "Blue", "Violet", "Grey", "White", "milli", "micro", "nano" and "pico" under the header of "LargeMenu1"	
5	USER → ME	Select item "Orange".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 1.2.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "LargeMenu1"
    Item
        Identifier of item: "50"
        Text string of item: "Zero"
    Item
        Identifier of item: "4F"
        Text string of item: "One"
    Item
        Identifier of item: "4E"
        Text string of item: "Two"
    Item
        Identifier of item: "4D"
        Text string of item: "Three"
    Item
        Identifier of item: "4C"
        Text string of item: "Four"
    Item
        Identifier of item: "4B"
        Text string of item: "Five"
    Item
        Identifier of item: "4A"

	Text string of item:	"Six"
Item		
	Identifier of item:	"49"
	Text string of item:	"Seven"
Item		
	Identifier of item:	"48"
	Text string of item:	"Eight"
Item		
	Identifier of item:	"47"
	Text string of item:	"Nine"
Item		
	Identifier of item:	"46"
	Text string of item:	"Alpha"
Item		
	Identifier of item:	"45"
	Text string of item:	"Bravo"
Item		
	Identifier of item:	"44"
	Text string of item:	"Charlie"
Item		
	Identifier of item:	"43"
	Text string of item:	"Delta"
Item		
	Identifier of item:	"42"
	Text string of item:	"Echo"
Item		
	Identifier of item:	"41"
	Text string of item:	"Fox-trot"
Item		
	Identifier of item:	"40"
	Text string of item:	"Black"
Item		
	Identifier of item:	"3F"
	Text string of item:	"Brown"
Item		
	Identifier of item:	"3E"
	Text string of item:	"Red"
Item		
	Identifier of item:	"3D"
	Text string of item:	"Orange"
Item		
	Identifier of item:	"3C"
	Text string of item:	"Yellow"
Item		
	Identifier of item:	"3B"
	Text string of item:	"Green"
Item		
	Identifier of item:	"3A"
	Text string of item:	"Blue"
Item		
	Identifier of item:	"39"
	Text string of item:	"Violet"
Item		
	Identifier of item:	"38"
	Text string of item:	"Grey"
Item		
	Identifier of item:	"37"
	Text string of item:	"White"
Item		
	Identifier of item:	"36"
	Text string of item:	"milli"
Item		

ETSI

	Identifier of item:	"35"
	Text string of item:	"micro"
Item		
	Identifier of item:	"34"
	Text string of item:	"nano"
Item		
	Identifier of item:	"33"
	Text string of item:	"pico"

Coding:

BER-TLV:	D0	81	FC	81	03	01	24	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	31
	8F	05	50	5A	65	72	6F	8F	04	4F	4F	6E
	65	8F	04	4E	54	77	6F	8F	06	4D	54	68
	72	65	65	8F	05	4C	46	6F	75	72	8F	05
	4B	46	69	76	65	8F	04	4A	53	69	78	8F
	06	49	53	65	76	65	6E	8F	06	48	45	69
	67	68	74	8F	05	47	4E	69	6E	65	8F	06
	46	41	6C	70	68	61	8F	06	45	42	72	61
	76	6F	8F	08	44	43	68	61	72	6C	69	65
	8F	06	43	44	65	6C	74	61	8F	05	42	45
	63	68	6F	8F	09	41	46	6F	78	2D	74	72
	6F	74	8F	06	40	42	6C	61	63	6B	8F	06
	3F	42	72	6F	77	6E	8F	04	3E	52	65	64
	8F	07	3D	4F	72	61	6E	67	65	8F	07	3C
	59	65	6C	6C	6F	77	8F	06	3B	47	72	65
	65	6E	8F	05	3A	42	6C	75	65	8F	07	39
	56	69	6F	6C	65	74	8F	05	38	47	72	65
	79	8F	06	37	57	68	69	74	65	8F	06	36
	6D	69	6C	6C	69	8F	06	35	6D	69	63	72
	6F	8F	05	34	6E	61	6E	6F	8F	05	33	70
	69	63	6F									

TERMINAL RESPONSE: SELECT ITEM 1.2.1

Logically:

Command details		
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Item identifier		
	Identifier of item chosen:	3D

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	3D									

Expected Sequence 1.3 (SELECT ITEM, call options, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 1.3.1	
4	ME → USER	Present the items of " Call Forwarding Unconditional", "Call Forwarding On User Busy", "Call Forwarding On No Reply", "Call Forwarding On User Not Reachable", "Barring Of All Outgoing Calls", "Barring Of All Outgoing International Calls" and "CLI Presentation" under the header of " LargeMenu2"	
5	USER → ME	Select item "Barring Of All Outgoing Calls".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 1.3.1	Command performed successfully
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND : SELECT ITEM 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "LargeMenu2"
    Item
        Identifier of item: "FF"
        Text string of item: "Call Forwarding Unconditional"
    Item
        Identifier of item: "FE"
        Text string of item: "Call Forwarding On User Busy"
    Item
        Identifier of item: "FD"
        Text string of item: "Call Forwarding On No Reply"
    Item
        Identifier of item: "FC"
        Text string of item: "Call Forwarding On User Not Reachable"
    Item
        Identifier of item: "FB"
        Text string of item: "Barring Of All Outgoing Calls"
    Item
        Identifier of item: "FA"
        Text string of item: "Barring Of All Outgoing International Calls"
    Item
        Identifier of item: "F9"
        Text string of item: "CLI Presentation"

Coding:

BER-TLV:	D0	81	FB	81	03	01	24	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	32
	8F	1E	FF	43	61	6C	6C	20	46	6F	72	77
	61	72	64	69	6E	67	20	55	6E	63	6F	6E
	64	69	74	69	6F	6E	61	6C	8F	1D	FE	43
	61	6C	6C	20	46	6F	72	77	61	72	64	69
	6E	67	20	4F	6E	20	55	73	65	72	20	42
	75	73	79	8F	1C	FD	43	61	6C	6C	20	46
	6F	72	77	61	72	64	69	6E	67	20	4F	6E
	20	4E	6F	20	52	65	70	6C	79	8F	26	FC
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	69	6E	67	20	4F	6E	20	55	73	65	72	20
	4E	6F	74	20	52	65	61	63	68	61	62	6C
	65	8F	1E	FB	42	61	72	72	69	6E	67	20
	4F	66	20	41	6C	6C	20	4F	75	74	67	6F
	69	6E	67	20	43	61	6C	6C	73	8F	2C	FA
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	65	72	6E	61	74	69	6F	6E	61
	6C	20	43	61	6C	6C	73	8F	11	F9	43	4C
	49	20	50	72	65	73	65	6E	74	61	74	69
	6F	6E										

TERMINAL RESPONSE: SELECT ITEM 1.3.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: FB

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	FB									

Expected Sequence 1.4 (SELECT ITEM, backward move by user, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.1	[
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.1	
4	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".	
5	USER → ME	Indicate to go backwards in the proactive UICC application session.	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 1.4.1A or TERMINAL RESPONSE: SELECT ITEM 1.4.1B	Backward move in the proactive UICC application session requested by user
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.2	
10	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".	
11	USER → ME	Indicate to end the proactive UICC application and return the ME to normal operation.	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 1.4.2A or TERMINAL RESPONSE: SELECT ITEM 1.4.2B	Proactive UICC application terminated by the user
13	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SELECT ITEM 1.4.1 and 1.4.2

Logically:

```
Command details
      Command number:        1
      Command type:          SELECT ITEM
      Command qualifier:     "00"
Device identities
      Source device:         UICC
      Destination device:    ME
      Alpha identifier:      "Select Item"
Item
      Identifier of item:    "11"
      Text string of item:   "One"
Item
      Identifier of item:    "12"
      Text string of item:   "Two"
```

Coding:

BER-TLV:	D0	22	81	03	01	24	00	82	02	81	82	85
	0B	53	65	6C	65	63	74	20	49	74	65	6D
	8F	04	11	4F	6E	65	8F	04	12	54	77	6F

TERMINAL RESPONSE: SELECT ITEM 1.4.1A

Logically:

 Command details
  Command number: 1
  Command type: SELECT ITEM
  Command qualifier: "00"
 Device identities
  Source device: ME
  Destination device: UICC
 Result
  General Result: backward move in the proactive UICC session requested by the user

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	11

TERMINAL RESPONSE: SELECT ITEM 1.4.1B

Logically:

 Command details
  Command number: 1
  Command type: SELECT ITEM
  Command qualifier: "00"
 Device identities
  Source device: ME
  Destination device: UICC
 Result
  General Result: backward move in the proactive UICC session requested by the user
 Item identifier
  Identifier of item chosen: XX

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	11
	90	01	XX									

TERMINAL RESPONSE: SELECT ITEM 1.4.2A

Logically:

 Command details
  Command number: 1
  Command type: SELECT ITEM
  Command qualifier: "00"
 Device identities
  Source device: ME
  Destination device: UICC
 Result
  General Result: proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	10

TERMINAL RESPONSE: SELECT ITEM 1.4.2B

Logically:

 Command details
  Command number: 1
  Command type: SELECT ITEM

	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	proactive UICC session terminated by the user
Item identifier		
	Identifier of item chosen: XX	

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	10
	90	01	XX									

Expected Sequence 1.5 (SELECT ITEM, "Y", successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 1.5.1	
4	ME → USER	Present the items of "Y" under the header of "The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i".	
5	USER → ME	Select item "Y"	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 1.5.1	Command performed successfully
7	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SELECT ITEM 1.5.1

Logically:

	Command details	
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	ME
	Alpha identifier:	"The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i"
Item		
	Identifier of item:	"01"
	Text string of item:	"Y"

Coding:

BER-TLV:	D0	81	FD	81	03	01	24	00	82	02	81	82
	85	81	ED	54	68	65	20	53	49	4D	20	73
	68	61	6C	6C	20	73	75	70	70	6C	79	20
	61	20	73	65	74	20	6F	66	20	69	74	65
	6D	73	20	66	72	6F	6D	20	77	68	69	63
	68	20	74	68	65	20	75	73	65	72	20	6D
	61	79	20	63	68	6F	6F	73	65	20	6F	6E
	65	2E	20	45	61	63	68	20	69	74	65	6D
	20	63	6F	6D	70	72	69	73	65	73	20	61
	20	73	68	6F	72	74	20	69	64	65	6E	74
	69	66	69	65	72	20	28	75	73	65	64	20
	74	6F	20	69	6E	64	69	63	61	74	65	20
	74	68	65	20	73	65	6C	65	63	74	69	6F
	6E	29	20	61	6E	64	20	61	20	74	65	78
	74	20	73	74	72	69	6E	67	2E	20	4F	70
	74	69	6F	6E	61	6C	6C	79	20	74	68	65
	20	53	49	4D	20	6D	61	79	20	69	6E	63
	6C	75	64	65	20	61	6E	20	61	6C	70	68
	61	20	69	64	65	6E	74	69	66	69	65	72
	2E	20	54	68	65	20	61	6C	70	68	61	20
	69	64	65	6E	74	69	66	69	65	72	20	
	69	8F	02	01	59							

TERMINAL RESPONSE: SELECT ITEM 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Item identifier
        Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

Expected Sequence 1.6 (SELECT ITEM, Large menu, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 1.6.1	
4	ME → USER	Present the items of "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls" and "7 CLI Presentation" under the header of "0LargeMenu".	
5	USER → ME	Select item "5 Barring Of All Outgoing Calls".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 1.6.1	Command performed successfully

PROACTIVE COMMAND : SELECT ITEM 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "0LargeMenu"
    Item
        Identifier of item: "FF"
        Text string of item: "1 Call Forward Unconditional"
    Item
        Identifier of item: "FE"
        Text string of item: "2 Call Forward On User Busy"
    Item
        Identifier of item: "FD"
        Text string of item: "3 Call Forward On No Reply"
    Item
        Identifier of item: "FC"
        Text string of item: "4 Call Forward On User Not Reachable"
    Item
        Identifier of item: "FB"
        Text string of item: "5 Barring Of All Outgoing Calls"
    Item
        Identifier of item: "FA"
        Text string of item: "6 Barring Of All Outgoing Int Calls"
    Item
        Identifier of item: "F9"
        Text string of item: "7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	24	00	82	02	81	82
	85	0A	30	4C	61	72	67	65	4D	65	6E	75
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						

TERMINAL RESPONSE: SELECT ITEM 1.6.1

Logically:

```
Command details
        Command number:        1
        Command type:          SELECT ITEM
        Command qualifier:     "00"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Item identifier
        Identifier of item chosen:    FB
```

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	FB									

The following table details the test commands with relation to the tested features:

	Proactive UICC Command Facilities		
Proactive UICC Command SELECT ITEM Number	**Alpha Identifier Length**	**Number of items**	**Maximum length of item**
1.1	14	4	6
1.2	10	30	8
1.3	10	7	43
1.4	11	2	3
1.5	236	1	1
1.6	10	7	37

27.22.4.9.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1, 1.2, 1.3, 1.4, 1.5 and 1.6 (SELECT ITEM, mandatory features).

27.22.4.9.2 SELECT ITEM (next action support)

27.22.4.9.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.2.2 Conformance Requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.2.3 Test purpose

To verify that the mobile supports next action indicator mode.

27.22.4.9.2.4 Method of test

27.22.4.9.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.2.4.2 Procedure

Expected Sequence 2.1 (SELECT ITEM, next action indicator, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 2.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	The ME may indicate to the user the consequences of performing the selection of an item
5	USER → ME	Navigate in the items, then select "Item 2".	The ME may indicate to the user the consequences of performing the selection of an item.
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 2.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 2.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SELECT ITEM
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Select"
Item
        Identifier of item:    1
        Text string of item:   "Item 1"
Item
        Identifier of item:    2
        Text string of item:   "Item 2"
Item
```

Identifier of item: 3
Text string of item: "Item 3"
Items next action indicator
Items list "Send SM", "Set Up Call", "Provide Local Info."

Coding:

BER-TLV:	D0	39	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	18	03	13	10	26	

TERMINAL RESPONSE: SELECT ITEM 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1

27.22.4.9.3 SELECT ITEM (default item support)

27.22.4.9.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.3.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.3.3 Test purpose

To verify that the mobile supports "default item" mode.

27.22.4.9.3.4 Method of test

27.22.4.9.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.3.4.2   Procedure

Expected Sequence 3.1 (SELECT ITEM, default item, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 3.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Check that "Item 2" is selected by default.
5	USER → ME	Navigate in the items, then select "Item 3".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 3.1.1	Command performed successfully

PROACTIVE COMMAND : SELECT ITEM 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Select"
    Item
        Identifier of item: 01
        Text string of item: "Item 1"
    Item
        Identifier of item: 02
        Text string of item: "Item 2"
    Item
        Identifier of item: 03
        Text string of item: "Item 3"
    Item identifier
        Identifier of item chosen   02

Coding:

BER-TLV:	D0	37	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	90	01	02			

TERMINAL RESPONSE: SELECT ITEM 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Item identifier
      Identifier of item chosen: 03

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	03									

27.22.4.9.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1

27.22.4.9.4 SELECT ITEM (help request support)

27.22.4.9.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.4.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.4.3 Test purpose

To verify that the mobile supports "help request" for the command Select Item.

27.22.4.9.4.4 Method of test

27.22.4.9.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.4.4.2 Procedure

Expected Sequence 4.1 (SELECT ITEM, help request, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 4.1.1	[Help information available]
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	
5	USER → ME	Navigate in the items until "Item 1".	
6	USER → ME	Select the Help Request on "Item 1" Menu entry	
7	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 4.1.1	[Help information required by the user]

PROACTIVE COMMAND : SELECT ITEM 4.1.1

Logically:

Command details
      Command number: 1

	Command type:	SELECT ITEM
	Command qualifier:	"80" help information available
Device identities		
	Source device:	UICC
	Destination device:	ME
	Alpha identifier:	"Toolkit Select"
Item		
	Identifier of item:	01
	Text string of item:	"Item 1"
Item		
	Identifier of item:	02
	Text string of item:	"Item 2"
Item		
	Identifier of item:	03
	Text string of item:	"Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	80	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 4.1.1

Logically:

Command details		
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"80"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Help information required by the user
Item identifier		
	Identifier of item chosen:	01

Coding:

BER-TLV:	81	03	01	24	80	82	02	82	81	83	01	13
	90	01	01									

27.22.4.9.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1

27.22.4.9.5 SELECT ITEM (icons support)

27.22.4.9.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.5.2 Conformance requirement

Same as clause 27.22.4.9.1.2 and 3GPP TS 31.111 [15] clause 8.31 and clause 8.32.

27.22.4.9.5.3 Test purpose

To verify that the mobile displays icons with the command Select Item.

27.22.4.9.5.4 Method of test

27.22.4.9.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.5.4.2 Procedure

Expected Sequence 5.1A (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 5.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify icons are displayed in the alpha identifier and in the 3 items.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 5.1.1 A	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 5.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SELECT ITEM
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Select"
Item
        Identifier of item:    01
        Text string of item:   "Item 1"
Item
        Identifier of item:    02
        Text string of item:   "Item 2"
Item
        Identifier of item:    03
        Text string of item:   "Item 3"
Icon Identifier:
        Icon qualifier:        "01" (icon is not self-explanatory)
        Icon Identifier:       record 1 in EF(IMG)
Item icon identifier list:
        Icon qualifier:        "01" (icon is not self-explanatory)
        Icon Identifier:       record 5 in EF(IMG) , record 5 in EF(IMG), record 5 in EF(IMG)
```

Coding:

BER-TLV:	D0	3^E	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	9E	02	01	01	9F	04
	01	05	05	05								

TERMINAL RESPONSE: SELECT ITEM 5.1.1A

Logically:

```
Command details
        Command number:          1
        Command type:            SELECT ITEM
        Command qualifier:       "00"
Device identities
        Source device:           ME
        Destination device:      UICC
Result
        General Result:          Command performed successfully
Item identifier
        Identifier of item chosen:  01
```

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

Expected Sequence 5.1B (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 5.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify that either for the header or for each of the items no icon is displayed.
5	USER → ME	Navigate in the items, then select "Item 1" under the header "Toolkit Menu".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 5.1.1 B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: SELECT ITEM 5.1.1B

Logically:

```
Command details
        Command number:          1
        Command type:            SELECT ITEM
        Command qualifier:       "00"
Device identities
        Source device:           ME
        Destination device:      UICC
Result
        General Result:          Command performed successfully but requested icon could not be displayed
```

Item identifier

    Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	04
	90	01	01									

Expected Sequence 5.2A (SELECT ITEM, BASIC ICON SELF EXPLANATORY, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 5.2.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify icons are displayed without text as alpha id and for the all 3 items.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 5.2.1 A	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 5.2.1

Logically:

Command details

    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select"
Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Item
    Identifier of item: 03
    Text string of item: "Item 3"
Icon Identifier:
    Icon qualifier: "00" (icon is self-explanatory)
    Icon Identifier: record 1 in EF$_{(IMG)}$
Item icon identifier list:
    Icon qualifier: "00" (icon is self-explanatory)
    Icon Identifier: record 5 in EF$_{(IMG)}$, record 5 in EF$_{(IMG)}$, record 5 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	3E	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	9E	02	00	01	9F	04
	00	05	05	05								

TERMINAL RESPONSE: SELECT ITEM 5.2.1A

Logically:

```
Command details
    Command number:         1
    Command type:           SELECT ITEM
    Command qualifier:      "00"
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command performed successfully
Item identifier
    Identifier of item chosen:  01
```

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

Expected Sequence 5.2B (SELECT ITEM, BASIC ICON SELF EXPLANATORY, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 5.2.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify that either for the header or for each of the items no icon is displayed.
5	USER → ME	Navigate in the items, then select "Item 1" under the header "Toolkit Menu".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 5.2.1B	[command performed successfully but requested icon could not be displayed]

TERMINAL RESPONSE: SELECT ITEM 5.2.1B

Logically:

```
Command details
    Command number:         1
    Command type:           SELECT ITEM
    Command qualifier:      "00"
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command performed successfully but requested icon could not be displayed
Item identifier
    Identifier of item chosen:  01
```

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	04
	90	01	01									

27.22.4.9.5.5   Test requirement

The ME shall operate in the manner defined in expected sequences 5.1A to 5.2B.

27.22.4.9.6 SELECT ITEM (presentation style)

27.22.4.9.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.6.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.6.3 Test purpose

To verify that the mobile supports the "presentation style" with the command Select Item.

27.22.4.9.6.4 Method of test

27.22.4.9.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.6.4.2 Procedure

Expected Sequence 6.1 (SELECT ITEM, PRESENTATION AS A CHOICE OF NAVIGATION OPTIONS, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 6.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify if presentation style appears.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 6.1.1	[command performed successfully]

PROACTIVE COMMAND : SELECT ITEM 6.1.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SELECT ITEM
        Command qualifier:     "03" (presentation as a choice of navigation options)
    Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Select"
    Item
        Identifier of item:    01
        Text string of item:   "Item 1"
    Item
        Identifier of item:    02
        Text string of item:   "Item 2"
    Item
```

Identifier of item: 03
Text string of item: "Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	03	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 6.1.1

Logically:

```
Command details
    Command number:         1
    Command type:           SELECT ITEM
    Command qualifier:      "03" (presentation as a choice of navigation options)
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command performed successfully
Item identifier
    Identifier of item chosen:  01
```

Coding:

| BER-TLV: | 81 | 03 | 01 | 24 | 03 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
| | 90 | 01 | 01 | | | | | | | | | |

Expected Sequence 6.2 (SELECT ITEM, PRESENTATION AS A CHOICE OF DATA VALUES, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 6.2.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify if presentation style appears
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 6.2.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 6.2.1

Logically:

```
Command details
    Command number:         1
    Command type:           SELECT ITEM
    Command qualifier:      "01" (presentation as a choice of data values)
Device identities
    Source device:          UICC
    Destination device:     ME
    Alpha identifier:       "Toolkit Select"
Item
```

	Identifier of item:	01
	Text string of item:	"Item 1"
Item		
	Identifier of item:	02
	Text string of item:	"Item 2"
Item		
	Identifier of item:	03
	Text string of item:	"Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	01	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 6.2.1

Logically:

Command details		
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"01"(presentation as a choice of data values)
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Item identifier		
	Identifier of item chosen:	01

Coding:

BER-TLV:	81	03	01	24	01	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.6.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 and 6.2.

27.22.4.9.7 SELECT ITEM (soft keys support)

27.22.4.9.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.7.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.7.3 Test purpose

To verify that the mobile supports the "soft keys" with the command Select Item.

27.22.4.9.7.4 Method of test

27.22.4.9.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.7.4.2 Procedure

Expected Sequence 7.1 (SELECT ITEM, SELECTING USING SOFT KEYS PREFERRED, successful, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 7.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select".	
5	USER → ME	Navigate in the items, then select "Item 1".	Verify that we can choose an item through soft keys
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 7.1.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 7.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "04" (selection using soft keys preferred)
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Select"
    Item
        Identifier of item: 01
        Text string of item: "Item 1"
    Item
        Identifier of item: 02
        Text string of item: "Item 2"

Coding:

BER-TLV:	D0	2B	81	03	01	24	04	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32			

TERMINAL RESPONSE: SELECT ITEM 7.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "04" (selection using soft keys preferred)

Device identities
      Source device: ME
      Destination device: UICC
Result
      General Result: Command performed successfully
Item identifier
      Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	04	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.9.8 SELECT ITEM (Support of "No response from user")

27.22.4.9.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.8.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.8.3 Test purpose

To verify that after a period of user inactivity the ME returns a "No response from user" result value in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.9.8.4 Method of test

27.22.4.9.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME Manufacturer shall have defined the "no response from user" period of time as declared in table A.2/4.

The USIM Simulator shall be set to that period of time.

27.22.4.9.8.4.2 Procedure

Expected Sequence 8.1 (SELECT ITEM, no response from user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 8.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 8.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "<TIME-OUT>".	
5	USER	Waiting and no completion	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 8.1.1	[No response from user] within 5 s after the end of that defined period of time
7	USER	Check if the delay of TERMINAL RESPONSE is reasonable or not	

PROACTIVE COMMAND : SELECT ITEM 8.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "<TIME-OUT>"
    Item
        Identifier of item: 01
        Text string of item: "Item 1"
    Item
        Identifier of item: 02
        Text string of item: "Item 2"
    Item
        Identifier of item: 03
        Text string of item: "Item 3"

Coding:

BER-TLV:	D0	30	81	03	01	24	00	82	02	81	82	85
	0A	3C	54	49	4D	45	2D	4F	55	54	3E	8F
	07	01	49	74	65	6D	20	31	8F	07	02	49
	74	65	6D	20	32	8F	07	03	49	74	65	6D
	20	33										

TERMINAL RESPONSE: SELECT ITEM 8.1.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: No response from user

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	12

27.22.4.9.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.1.

27.22.4.9.9 SELECT ITEM (Support of Text Attribute)

27.22.4.9.9.1 SELECT ITEM (Support of Text Attribute – Left Alignment)

27.22.4.9.9.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.1.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.1.3 Test purpose

To verify that the ME displays text formatted according to the left alignment text attribute configuration within the command Select Item.

27.22.4.9.9.1.4 Method of test

27.22.4.9.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.1.4.2 Procedure

Expected Sequence 9.1 (SELECT ITEM, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with left alignment.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.1.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.1.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/10, no alignment change will take place.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.1.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.1.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 1"
Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0

Formatting length:	6	
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off	
Colour:	Dark Green Foreground, Bright Yellow Background	

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.1.2

Logically:

Command details		
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	ME
	Alpha identifier:	"Toolkit Select 2"
Item		
	Identifier of item:	01
	Text string of item:	"Item 3"
Item		
	Identifier of item:	02
	Text string of item:	"Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.1.1

Logically:

Command details		
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Item identifier		
	Identifier of item chosen:	01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

27.22.4.9.9.2   SELECT ITEM (Support of Text Attribute – Center Alignment)

27.22.4.9.9.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.9.9.2.2   Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.2.3   Test purpose

To verify that the ME displays text formatted according to the center alignment text attribute configuration within the command Select Item.

27.22.4.9.9.2.4   Method of test

27.22.4.9.9.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.2.4.2   Procedure

Expected Sequence 9.2 (SELECT ITEM, Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.2.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with center alignment.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.2.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.2.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.2.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/10, no alignment change will take place.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.2.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.2.1

Logically:

Command details	
Command number:	1
Command type:	SELECT ITEM
Command qualifier:	"00"
Device identities	
Source device:	UICC
Destination device:	ME
Alpha identifier:	"Toolkit Select 1"
Item	
Identifier of item:	01
Text string of item:	"Item 1"
Item	
Identifier of item:	02
Text string of item:	"Item 2"
Text Attribute	
Formatting position:	0
Formatting length:	16
Formatting mode:	Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background
Item Text Attribute List	
Text Attribute List:	
Item #1	
Formatting position:	0
Formatting length:	6
Formatting mode:	Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background
Item #2	
Formatting position:	0
Formatting length:	6
Formatting mode:	Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	01	B4	D1	08	00	06	01	B4	00
	06	01	B4									

PROACTIVE COMMAND: SELECT ITEM 9.2.2

Logically:

Command details	
Command number:	1
Command type:	SELECT ITEM
Command qualifier:	"00"
Device identities	
Source device:	UICC
Destination device:	ME
Alpha identifier:	"Toolkit Select 2"
Item	
Identifier of item:	01

	Text string of item:	"Item 3"
Item		
	Identifier of item:	02
	Text string of item:	"Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.2.1

Logically:

```
    Command details
            Command number:        1
            Command type:          SELECT ITEM
            Command qualifier:     "00"
    Device identities
            Source device:         ME
            Destination device:    UICC
    Result
            General Result:        Command performed successfully
    Item identifier
            Identifier of item chosen:  01
```

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.2.

27.22.4.9.9.3 SELECT ITEM (Support of Text Attribute – Right Alignment)

27.22.4.9.9.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.3.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.3.3 Test purpose

To verify that the ME displays text formatted according to the right alignment text attribute configuration within the command Select Item.

27.22.4.9.9.3.4 Method of test

27.22.4.9.9.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.3.4.2 Procedure

Expected Sequence 9.3 (SELECT ITEM, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.3.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with right alignment.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.3.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.3.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.3.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/10, no alignment change will take place.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.3.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.3.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 1"
Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6

Formatting mode:		Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off								
Colour:		Dark Green Foreground, Bright Yellow Background								
Item #2										
Formatting position:		0								
Formatting length:		6								
Formatting mode:		Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off								
Colour:		Dark Green Foreground, Bright Yellow Background								

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	02	B4	D1	08	00	06	02	B4	00
	06	02	B4									

PROACTIVE COMMAND: SELECT ITEM 9.3.2

Logically:

Command details		
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	ME
	Alpha identifier:	"Toolkit Select 2"
Item		
	Identifier of item:	01
	Text string of item:	"Item 3"
Item		
	Identifier of item:	02
	Text string of item:	"Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.3.1

Logically:

Command details		
	Command number:	1
	Command type:	SELECT ITEM
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Item identifier		
	Identifier of item chosen:	01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.3.

27.22.4.9.9.4 SELECT ITEM (Support of Text Attribute – Large Font Size)

27.22.4.9.9.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.4.3 Test purpose

To verify that the ME displays text formatted according to the large font size text attribute configuration within the command Select Item.

27.22.4.9.9.4.4 Method of test

27.22.4.9.9.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.4.4.2   Procedure

Expected Sequence 9.4 (SELECT ITEM, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.4.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with large font size.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.4.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with normal font size.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.4.1	
16	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with large font size.
17	USER → ME	Navigate in the items, then select "Item 1".	
18	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.4.3	
22	ME → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with normal font size.
23	USER → ME	Navigate in the items, then select "Item 5".	
24	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.4.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Select 1"

Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	04	B4	D1	08	00	06	04	B4	00
	06	04	B4									

PROACTIVE COMMAND: SELECT ITEM 9.4.2

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 2"
Item
    Identifier of item: 01
    Text string of item: "Item 3"
Item
    Identifier of item: 02
    Text string of item: "Item 4"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour:	Dark Green Foreground, Bright Yellow Background	
Item #2		
Formatting position:	0	
Formatting length:	6	
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off	
Colour:	Dark Green Foreground, Bright Yellow Background	

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.4.3

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 3"
Item
    Identifier of item: 01
    Text string of item: "Item 5"
Item
    Identifier of item: 02
    Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.4.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.4.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.4.

27.22.4.9.9.5   SELECT ITEM (Support of Text Attribute – Small Font Size)

27.22.4.9.9.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.9.9.5.2   Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.5.3   Test purpose

To verify that the ME displays text formatted according to the small font size text attribute configuration within the command Select Item.

27.22.4.9.9.5.4   Method of test

27.22.4.9.9.5.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.5.4.2   Procedure

Expected Sequence 9.5 (SELECT ITEM, Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.5.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with small font size.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.5.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with normal font size.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.5.1	
16	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with small font size.
17	USER → ME	Navigate in the items, then select "Item 1".	
18	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.5.3	
22	ME → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with normal font size.
23	USER → ME	Navigate in the items, then select "Item 5".	
24	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.5.1

Logically:

```
Command details
        Command number:     1
        Command type:       SELECT ITEM
        Command qualifier:  "00"
Device identities
        Source device:      UICC
        Destination device: ME
        Alpha identifier:   "Toolkit Select 1"
```

Item
  Identifier of item: 01
  Text string of item: "Item 1"
Item
  Identifier of item: 02
  Text string of item: "Item 2"
Text Attribute
  Formatting position: 0
  Formatting length: 16
  Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
  Text Attribute List:
  Item #1
  Formatting position: 0
  Formatting length: 6
  Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background
  Item #2
  Formatting position: 0
  Formatting length: 6
  Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	08	B4	D1	08	00	06	08	B4	00
	06	08	B4									

PROACTIVE COMMAND: SELECT ITEM 9.5.2

Logically:

Command details
  Command number: 1
  Command type: SELECT ITEM
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: ME
  Alpha identifier: "Toolkit Select 2"
Item
  Identifier of item: 01
  Text string of item: "Item 3"
Item
  Identifier of item: 02
  Text string of item: "Item 4"
Text Attribute
  Formatting position: 0
  Formatting length: 16
  Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
  Text Attribute List:
  Item #1
  Formatting position: 0
  Formatting length: 6
  Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background
Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.5.3

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 3"
Item
    Identifier of item: 01
    Text string of item: "Item 5"
Item
    Identifier of item: 02
    Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.5.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.5.

27.22.4.9.9.6   SELECT ITEM (Support of Text Attribute – Bold On)

27.22.4.9.9.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.9.9.6.2   Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.6.3   Test purpose

To verify that the ME displays text formatted according to the bold text attribute configuration within the command Select Item.

27.22.4.9.9.6.4   Method of test

27.22.4.9.9.6.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.6.4.2   Procedure

Expected Sequence 9.6 (SELECT ITEM, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.6.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with bold on.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.6.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with bold off.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.6.1	
16	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with bold on.
17	USER → ME	Navigate in the items, then select "Item 1".	
18	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.6.3	
22	ME → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with bold off.
23	USER → ME	Navigate in the items, then select "Item 5".	
24	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.6.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Select 1"

Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	10	B4	D1	08	00	06	10	B4	00
	06	10	B4									

PROACTIVE COMMAND: SELECT ITEM 9.6.2

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 2"
Item
    Identifier of item: 01
    Text string of item: "Item 3"
Item
    Identifier of item: 02
    Text string of item: "Item 4"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background
Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.6.3

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 3"
Item
    Identifier of item: 01
    Text string of item: "Item 5"
Item
    Identifier of item: 02
    Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.6.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.6.

27.22.4.9.9.7   SELECT ITEM (Support of Text Attribute – Italic On)

27.22.4.9.9.7.1   Definition and applicability

See clause 3.2.2.

27.22.4.9.9.7.2   Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.7.3   Test purpose

To verify that the ME displays text formatted according to the italic text attribute configuration within the command Select Item.

27.22.4.9.9.7.4   Method of test

27.22.4.9.9.7.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.7.4.2 Procedure

Expected Sequence 9.7 (SELECT ITEM, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.7.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with italic on.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.7.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with italic off.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.7.1	
16	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with italic on.
17	USER → ME	Navigate in the items, then select "Item 1".	
18	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.7.3	
22	ME → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with italic off.
23	USER → ME	Navigate in the items, then select "Item 5".	
24	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.7.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Select 1"

Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	20	B4	D1	08	00	06	20	B4	00
	06	20	B4									

PROACTIVE COMMAND: SELECT ITEM 9.7.2

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 2"
Item
    Identifier of item: 01
    Text string of item: "Item 3"
Item
    Identifier of item: 02
    Text string of item: "Item 4"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background
Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.7.3

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 3"
Item
    Identifier of item: 01
    Text string of item: "Item 5"
Item
    Identifier of item: 02
    Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.7.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Item identifier
    Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.7.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.7.

27.22.4.9.9.8   SELECT ITEM (Support of Text Attribute – Underline On)

27.22.4.9.9.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.9.9.8.2   Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.8.3   Test purpose

To verify that the ME displays text formatted according to the underline text attribute configuration within the command Select Item.

27.22.4.9.9.8.4   Method of test

27.22.4.9.9.8.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.8.4.2 Procedure

Expected Sequence 9.8 (SELECT ITEM, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.8.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with underline on.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.8.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with underline off.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.8.1	
16	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with underline on.
17	USER → ME	Navigate in the items, then select "Item 1".	
18	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.8.3	
22	ME → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with underline off.
23	USER → ME	Navigate in the items, then select "Item 5".	
24	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.8.1

Logically:

```
    Command details
            Command number:        1
            Command type:          SELECT ITEM
            Command qualifier:     "00"
    Device identities
            Source device:         UICC
            Destination device:    ME
            Alpha identifier:      "Toolkit Select 1"
```

Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	40	B4	D1	08	00	06	40	B4	00
	06	40	B4									

PROACTIVE COMMAND: SELECT ITEM 9.8.2

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 2"
4Item
    Identifier of item: 01
    Text string of item: "Item 3"
Item
    Identifier of item: 02
    Text string of item: "Item 4"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

	Colour:	Dark Green Foreground, Bright Yellow Background
	Item #2	
	Formatting position:	0
	Formatting length:	6
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.8.3

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
        Alpha identifier: "Toolkit Select 3"
    Item
        Identifier of item: 01
        Text string of item: "Item 5"
    Item
        Identifier of item: 02
        Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.8.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Item identifier
        Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.8.

27.22.4.9.9.9 SELECT ITEM (Support of Text Attribute – Strikethrough On)

27.22.4.9.9.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.9.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.9.3 Test purpose

To verify that the ME displays text formatted according to the strikethrough text attribute configuration within the command Select Item.

27.22.4.9.9.9.4 Method of test

27.22.4.9.9.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.9.4.2 Procedure

Expected Sequence 9.9 (SELECT ITEM, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.9.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with strikethrough on.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.9.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with strikethrough off.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.9.1	
16	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with strikethrough on.
17	USER → ME	Navigate in the items, then select "Item 1".	
18	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	[command performed successfully]
19	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.9.3	
22	ME → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with strikethrough off.
23	USER → ME	Navigate in the items, then select "Item 5".	
24	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.9.1

Logically:

```
Command details
        Command number:        1
        Command type:          SELECT ITEM
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    ME
        Alpha identifier:      "Toolkit Select 1"
```

Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	80	B4	D1	08	00	06	80	B4	00
	06	80	B4									

PROACTIVE COMMAND: SELECT ITEM 9.9.2

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 2"
Item
    Identifier of item: 01
    Text string of item: "Item 3"
Item
    Identifier of item: 02
    Text string of item: "Item 4"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour:			Dark Green Foreground, Bright Yellow Background							

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.9.3

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: ME
Alpha identifier: "Toolkit Select 3"
Item
Identifier of item: 01
Text string of item: "Item 5"
Item
Identifier of item: 02
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.9.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.9.

27.22.4.9.9.10 SELECT ITEM (Support of Text Attribute – Foreground and Background Colour)

27.22.4.9.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.10.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.10.3 Test purpose

To verify that the ME displays text formatted according to the foreground and background colour text attribute configuration within the command Select Item.

27.22.4.9.9.10.4 Method of test

27.22.4.9.9.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.10.4.2 Procedure

Expected Sequence 9.10 (SELECT ITEM, Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.10.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with foreground and background colour according to the configuration.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.10.1	[command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 9.10.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SELECT ITEM 9.10.2	
10	ME → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with ME"s default foreground and background colour.
11	USER → ME	Navigate in the items, then select "Item 3".	
12	ME → UICC	TERMINAL RESPONSE: SELECT ITEM 9.10.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 9.10.1

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 1"
Item
    Identifier of item: 01
    Text string of item: "Item 1"
Item
    Identifier of item: 02
    Text string of item: "Item 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
Item Text Attribute List
    Text Attribute List:
    Item #1
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background
    Item #2
    Formatting position: 0
    Formatting length: 6
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.10.2

Logically:

Command details
    Command number: 1
    Command type: SELECT ITEM
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
    Alpha identifier: "Toolkit Select 2"
Item
    Identifier of item: 01
    Text string of item: "Item 3"
Item
    Identifier of item: 02
    Text string of item: "Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.10.1

Logically:

    Command details
        Command number: 1
        Command type: SELECT ITEM
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Item identifier
        Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 9.10.

27.22.4.10   SEND SHORT MESSAGE

27.22.4.10.1   SEND SHORT MESSAGE (normal)

27.22.4.10.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.10.1.2   Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

27.22.4.10.1.3   Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.1.4   Method of test

27.22.4.10.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.1.4.2 Procedure

Expected Sequence 1.1(SEND SHORT MESSAGE, packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	[packing not required, 8-bit data]
4	ME → USER	Display "Send SM"	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Send SM"
Address
    TON: International number
    NPI: "ISDN / telephone numbering plan"
    Dialling number string   "112233445566778"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "012345678"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   8-bit data
    Message class   class 0
    TP-UDL   12
    TP-UD   "Test Message"

Coding:

BER-TLV:	D0	37	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65			

SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "01"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "012345678"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   8-bit data
    Message class   class 0
    TP-UDL   12
    TP-UD   "Test Message"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (SEND SHORT MESSAGE, packing required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.2.1	[packing required, 8-bit data]
4	ME → USER	Display "Send SM"	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.2	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.2.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.2.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SEND SHORT MESSAGE
        Command qualifier:     packing required
    Device identities
        Source device:         UICC
        Destination device:    Network
        Alpha identifier:      "Send SM"
    Address
        TON:                   International number
        NPI:                   "ISDN / telephone numbering plan"
        Dialling number string "112233445566778"
    SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "00"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
        Address value          "012345678"
        TP-PID                 Short message type 0
        TP-DCS
        Message coding         8-bit data
        Message class          class 0
        TP-UDL                 7
        TP-UD                  "Send SM"
```

Coding:

BER-TLV:	D0	32	81	03	01	13	01	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	13	01	00	09
	91	10	32	54	76	F8	40	F4	07	53	65	6E
	64	20	53	4D								

SMS-PP (SEND SHORT MESSAGE) Message 1.2

Logically:

```
    SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "01"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
        Address value          "012345678"
        TP-PID                 Short message type 0
        TP-DCS
        Message coding         SMS default alphabet
        Message class          class 0
        TP-UDL                 7
```

TP-UD   "Send SM"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F0	07
	D3	B2	9B	0C	9A	36	01					

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	01	00

Expected Sequence 1.3 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.3.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Short Message"	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.3	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Short Message"
Address
    TON: International number
    NPI: "ISDN / telephone numbering plan"
    Dialling number string   "112233445566778"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present

TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV:	D0	3D	81	03	01	13	00	82	02	81	83	85
	0D	53	68	6F	72	74	20	4D	65	73	73	61
	67	65	86	09	91	11	22	33	44	55	66	77
	F8	8B	18	01	00	09	91	10	32	54	76	F8
	40	F0	0D	53	F4	5B	4E	07	35	CB	F3	79
	F8	5C	06									

SMS-PP (SEND SHORT MESSAGE) Message 1.3

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F0	0D
	53	F4	5B	4E	07	35	CB	F3	79	F8	5C	06

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1

Logically:

Command details

Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required

Device identities

Source device:	ME

	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (SEND SHORT MESSAGE, packing required, 8 bit data, message of 160 characters user data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.4. 1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.4.1	[packing required, 8 bit data]
4	ME → USER	Display "The address data object holds the RP_Destination_Address "	[Alpha Identifier]
5	ME → USS	Send SMS-PP(SEND SHORT MESSAGE) Message 1.4	[message of 140 bytes user data]
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.4.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing required
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "The address data object holds the RP_Destination_Address"
Address
    TON: International number
    NPI: "ISDN / telephone numbering plan"
    Dialling number string "112233445566778"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "012345678"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   8 bit data
    Message class   class 0
    TP-UDL   160

| | | TP-UD | | | "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp" |

Coding:

BER-TLV:	D0	81	FD	81	03	01	13	01	82	02	81	83
	85	38	54	68	65	20	61	64	64	72	65	73
	73	20	64	61	74	61	20	6F	62	6A	65	63
	74	20	68	6F	6C	64	73	20	74	68	65	20
	52	50	11	44	65	73	74	69	6E	61	74	69
	6F	6E	11	41	64	64	72	65	73	73	86	09
	91	11	22	33	44	55	66	77	F8	8B	81	AC
	01	00	09	91	10	32	54	76	F8	40	F4	A0
	54	77	6F	20	74	79	70	65	73	20	61	72
	65	20	64	65	66	69	6E	65	64	3A	20	2D
	20	41	20	73	68	6F	72	74	20	6D	65	73
	73	61	67	65	20	74	6F	20	62	65	20	73
	65	6E	74	20	74	6F	20	74	68	65	20	6E
	65	74	77	6F	72	6B	20	69	6E	20	61	6E
	20	53	4D	53	2D	53	55	42	4D	49	54	20
	6D	65	73	73	61	67	65	2C	20	6F	72	20
	61	6E	20	53	4D	53	2D	43	4F	4D	4D	41
	4E	44	20	6D	65	73	73	61	67	65	2C	20
	77	68	65	72	65	20	74	68	65	20	75	73
	65	72	20	64	61	74	61	20	63	61	6E	20
	62	65	20	70	61	73	73	65	64	20	74	72
	61	6E	73	70								

SMS-PP (SEND SHORT MESSAGE) Message 1.4

Logically:

SMS TPDU

	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"01"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	160
	TP-UD	"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV:		01	01	09	91	10	32	54	76	F8	40	F0
	A0	D4	FB	1B	44	CF	C3	CB	73	50	58	5E
	06	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20
	68	8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB
	20	FA	1B	24	2E	83	E6	65	37	1D	44	7F
	83	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28
	ED	06	85	DD	A0	69	73	DA	9A	56	85	CD
	24	15	D4	2E	CF	E7	E1	73	99	05	7A	CB
	41	61	37	68	DA	9C	B6	86	CF	66	33	E8
	24	82	DA	E5	F9	3C	7C	2E	B3	40	77	74
	59	5E	06	D1	D1	65	50	7D	5E	96	83	C8
	61	7A	18	34	0E	BB	41	E2	32	08	1E	9E
	CF	CB	64	10	5D	1E	76	CF	E1			

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	01	00

Expected Sequence 1.5 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, message of 160 characters user data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.5.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "The address data object holds the RP Destination Address "	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.5	[message of 140 bytes user data]
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network

	Alpha identifier:	"The address data object holds the RP Destination Address"
Address		
	TON:	International number
	NPI:	"ISDN / telephone numbering plan"
	Dialling number string	"112233445566778"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	160
	TP-UD	"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV:	D0	81	E9	81	03	01	13	00	82	02	81	83
	85	38	54	68	65	20	61	64	64	72	65	73
	73	20	64	61	74	61	20	6F	62	6A	65	63
	74	20	68	6F	6C	64	73	20	74	68	65	20
	52	50	20	44	65	73	74	69	6E	61	74	69
	6F	6E	20	41	64	64	72	65	73	73	86	09
	91	11	22	33	44	55	66	77	F8	8B	81	98
	01	00	09	91	10	32	54	76	F8	40	F0	A0
	D4	FB	1B	44	CF	C3	CB	73	50	58	5E	06
	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20	68
	8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB	20
	FA	1B	24	2E	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	B6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	B3	40	77	74	59
	5E	06	D1	D1	65	50	7D	5E	96	83	C8	61
	7A	18	34	0E	BB	41	E2	32	08	1E	9E	CF
	CB	64	10	5D	1E	76	CF	E1				

SMS-PP (SEND SHORT MESSAGE) Message 1.5

Logically:

SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"01"
	TP-DA	
	TON	International number

	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	160
	TP-UD	"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F0	A0
	D4	FB	1B	44	CF	C3	CB	73	50	58	5E	06
	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20	68
	8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB	20
	FA	1B	24	2E	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	B6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	B3	40	77	74	59
	5E	06	D1	D1	65	50	7D	5E	96	83	C8	61
	7A	18	34	0E	BB	41	E2	32	08	1E	9E	CF
	CB	64	10	5D	1E	76	CF	E1				

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1

Logically:

	Command details	
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
	Device identities	
	Source device:	ME
	Destination device:	UICC
	Result	
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.6 (SEND SHORT MESSAGE, alpha identifier 160 bytes long, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.6.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transparently; - A short message to be sent to the network in an SMS-SUBMIT "	[Alpha Identifier of 160 bytes]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.6	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.6.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transparently; - A short message to be sent to the network in an SMS-SUBMIT"
    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "00"
        TP-DA
        TON   International number
        NPI   "ISDN / telephone numbering plan"
        Address value   "01"
        TP-PID   Short message type 0
        TP-DCS
        Message coding   SMS default alphabet
        Message class   class 0
        TP-UDL   1
        TP-UD   " "

Coding:

BER-TLV:	D0	81	FD	81	03	01	13	00	82	02	81	83
	85	81	E6	54	77	6F	20	74	79	70	65	73
	20	61	72	65	20	64	65	66	69	6E	65	64
	3A	20	2D	20	41	20	73	68	6F	72	74	20
	6D	65	73	73	61	67	65	20	74	6F	20	62
	65	20	73	65	6E	74	20	74	6F	20	74	68
	65	20	6E	65	74	77	6F	72	6B	20	69	6E
	20	61	6E	20	53	4D	53	2D	53	55	42	4D
	49	54	20	6D	65	73	73	61	67	65	2C	20
	6F	72	20	61	6E	20	53	4D	53	2D	43	4F
	4D	4D	41	4E	44	20	6D	65	73	73	61	67
	65	2C	20	77	68	65	72	65	20	74	68	65
	20	75	73	65	72	20	64	61	74	61	20	63
	61	6^E	20	62	65	20	70	61	73	73	65	64
	20	74	72	61	6E	73	70	61	72	65	6E	74
	6C	79	3B	20	2D	20	41	20	73	68	6F	72
	74	20	6D	65	73	73	61	67	65	20	74	6F
	20	62	65	20	73	65	6E	74	20	74	6F	20
	74	68	65	20	6E	65	74	77	6F	72	6B	20
	69	6E	20	61	6E	20	53	4D	53	2D	53	55
	42	4D	49	54	20	8B	09	01	00	02	91	10
	40	F0	01	20								

SMS-PP (SEND SHORT MESSAGE) Message 1.6

Logically:

SMS TPDU
TP-MTI	SMS-SUBMIT	
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM	
TP-VPF	TP-VP field not present	
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT	
TP-UDHI	The TP-UD field contains only the short message	
TP-SRR	A status report is not requested	
TP-MR	"01"	
TP-DA		
TON	International number	
NPI	"ISDN / telephone numbering plan"	
Address value	"01"	
TP-PID	Short message type 0	
TP-DCS		
Message coding	SMS default alphabet	
Message class	class 0	
TP-UDL	1	
TP-UD	" "	

Coding:

BER-TLV:	01	01	02	91	10	40	F0	01	20

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.6.1

Logically:

Command details
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required

Device identities
Source device:	ME
Destination device:	UICC

Result

    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.7(SEND SHORT MESSAGE, alpha identifier length '00', packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1	[packing not required, 8-bit data]
4	ME	No information to user	[Alpha identifier length '00']
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.7	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.7.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier:
    Address
        TON: International number
        NPI: "ISDN / telephone numbering plan"
        Dialling number string   "112233445566778"
    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "00"
        TP-DA
        TON   International number
        NPI   "ISDN / telephone numbering plan"
        Address value   "012345678"
        TP-PID   Short message type 0
        TP-DCS
        Message coding   8-bit data
        Message class   class 0
        TP-UDL   12
        TP-UD   "Test Message"

Coding:

BER-TLV:	D0	30	81	03	01	13	00	82	02	81	83	85
	00	86	09	91	11	22	33	44	55	66	77	F8
	8B	18	01	00	09	91	10	32	54	76	F8	40
	F4	0C	54	65	73	74	20	4D	65	73	73	61
	67	65										

SMS-PP (SEND SHORT MESSAGE) Message 1.7

Logically:

SMS TPDU
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.7.1

Logically:

Command details
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required

Device identities
Source device:	ME
Destination device:	UICC

Result
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.8 (SEND SHORT MESSAGE, packing not required, 8-bit data, no alpha identifier, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.8.1	[packing not required, 8-bit data]
4	ME → USER	May give information to user concerning what is happening	[No Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.8	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.8.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
Address
    TON: International number
    NPI: "ISDN / telephone numbering plan"
    Dialling number string   "112233445566778"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "012345678"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   8-bit data
    Message class   class 0
    TP-UDL   12
    TP-UD   "Test Message"

Coding:

BER-TLV:	D0	2E	81	03	01	13	00	82	02	81	83	86
	09	91	11	22	33	44	55	66	77	F8	8B	18
	01	00	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

SMS-PP (SEND SHORT MESSAGE) Message 1.8

Logically:

SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "01"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "012345678"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   8-bit data
    Message class   class 0
    TP-UDL   12
    TP-UD   "Test Message"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.8.

27.22.4.10.2   SEND SHORT MESSAGE (UCS2 display in Cyrillic)

27.22.4.10.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.10.2.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.2.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.2.4 Method of test

27.22.4.10.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.2.4.2 Procedure

Expected Sequence 2.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data in Cyrillic))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	[Alpha Identifier] "Hello" in Russian, 0x80 coding of UCS2 format
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	Cyrillic
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND SEND SHORT MESSAGE 2.1.2	
12	ME → USER	Display "ЗДРАВСТВУЙТЕ"	[Alpha Identifier] "Hello" in Russian, 0x81 coding of UCS2 format
13	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	
14	USS → ME	SMS RP-ACK	

15	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3	[UCS2 alphabet]
20	ME → USER	Display "ЗДРАВСТВУЙТЕ"	[Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format
21	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	
22	USS → ME	SMS RP-ACK	
23	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SHORT MESSAGE
        Command qualifier:     packing not required
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha identifier:              "ЗДРАВСТВУЙТЕ"
Address
        TON:                   International number
        NPI:                   "ISDN / telephone numbering plan"
        Dialling number string "112233445566778"
SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "00"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
        Address value          "012345678"
        TP-PID                 Short message type 0
        TP-DCS
        Message coding         16-bit data
        Message class          class 0
        TP-UDL                 24
        TP-UD                  "ЗДРАВСТВУЙТЕ"
```

Coding:

BER-TLV:	D0	55	81	03	01	13	00	82	02	81	83	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	86	09	91	11	22	33	44	55	66	77
	F8	8B	24	01	00	09	91	10	32	54	76	F8
	40	08	18	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15									

SMS-PP (SEND SHORT MESSAGE) Message 2.1

Logically:

SMS TPDU
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	UCS2 (16-bit data)
Message class	class 0
TP-UDL	24
TP-UD	"ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	08	18
	04	17	04	14	04	20	04	10	04	12	04	21
	04	22	04	12	04	23	04	19	04	22	04	15

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.2

Logically:

Command details
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required

Device identities
Source device:	UICC
Destination device:	Network
Alpha identifier:	"ЗДРАВСТВУЙТЕ"

Address
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"

SMS TPDU
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message

	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	16-bit data
	Message class	class 0
	TP-UDL	24
	TP-UD	"ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	4B	81	03	01	13	00	82	02	81	83	85
	0F	81	0C	08	97	94	A0	90	92	A1	A2	92
	A3	99	A2	95	86	09	91	11	22	33	44	55
	66	77	F8	8B	24	01	00	09	91	10	32	54
	76	F8	40	08	18	04	17	04	14	04	20	04
	10	04	12	04	21	04	22	04	12	04	23	04
	19	04	22	04	15							

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.3

Logically:

	Command details	
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
	Device identities	
	Source device:	UICC
	Destination device:	Network
	Alpha identifier:	"ЗДРАВСТВУЙТЕ"
	Address	
	TON:	International number
	NPI:	"ISDN / telephone numbering plan"
	Dialling number string	"112233445566778"
	SMS TPDU	
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	16-bit data
	Message class	class 0
	TP-UDL	24
	TP-UD	"ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	4C	81	03	01	13	00	82	02	81	83	85
	10	82	0C	04	10	87	84	90	80	82	91	92
	82	93	89	92	85	86	09	91	11	22	33	44
	55	66	77	F8	8B	24	01	00	09	91	10	32
	54	76	F8	40	08	18	04	17	04	14	04	20
	04	10	04	12	04	21	04	22	04	12	04	23
	04	19	04	22	04	15						

TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.10.3 SEND SHORT MESSAGE (icon support)

27.22.4.10.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.3.2 Conformance requirement

27.22.4.10.3.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.3.4 Method of test

27.22.4.10.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as Toolkit default.

The ME screen shall be in its normal stand-by display.

27.22.4.10.3.4.2   Procedure

Expected Sequence 3.1A (SEND SHORT MESSAGE, basic icon self-explanatory, packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1	[packing not required, 8-bit data]
4	ME → USER	Displays the icon and not the alpha identifier	[basic icon self-explanatory]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "NO ICON"
    Address
        TON: International number
        NPI: "ISDN / telephone numbering plan"
        Dialling number string "112233445566778"
    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "00"
        TP-DA
        TON   International number
        NPI   "ISDN / telephone numbering plan"
        Address value   "012345678"
        TP-PID   Short message type 0
        TP-DCS
        Message coding   8bit-data
        Message class   class 0
        TP-UDL   12
        TP-UD   "Test Message"
    Icon Identifier
        Icon Qualifier   self-explanatory
        Icon Identifier   1 (number of record in EF IMG)

Coding:

BER-TLV:	D0	3B	81	03	01	13	00	82	02	81	83	85
	07	4E	4F	20	49	43	4F	4E	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65	9E	02	00
	01											

SMS-PP (SEND SHORT MESSAGE) Message 3.1

Logically:

SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "01"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "012345678"
TP-PID Short message type 0
TP-DCS
Message coding 8-bit data
Message class class 0
TP-UDL 12
TP-UD "Test Message"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1A

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 3.1B (SEND SHORT MESSAGE, basic icon self-explanatory, packing not required, 8-bit data, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1	[packing not required, 8-bit data, basic icon self-explanatory]]
4	ME → USER	Displays the alpha identifier without the icon	
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1B

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	04

Expected Sequence 3.2A (SEND SHORT MESSAGE, basic icon non-self-explanatory, packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1	[packing not required, 8-bit data]
4	ME → USER	display the icon and "Send SM"	[basic icon non-self-explanatory]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.2	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC

	Destination device:	Network
Alpha Identifier		"Send SM"
	Address	
	TON:	International number
	NPI:	"ISDN / telephone numbering plan"
	Dialling number string	"112233445566778"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	8bit-data
	Message class	class 0
	TP-UDL	12
	TP-UD	"Test Message"
Icon Identifier		
	Icon Qualifier	non-self-explanatory
	Icon Identifier	1 (number of record in EF IMG)

Coding:

BER-TLV:	D0	3B	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65	1E	02	01
	01											

SMS-PP (SEND SHORT MESSAGE) Message 3.2

Logically:

SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	8-bit data
	Message class	class 0
	TP-UDL	12
	TP-UD	"Test Message"

Coding:

BER-TLV:	01	00	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 3.2B (SEND SHORT MESSAGE, basic icon non-self-explanatory, packing not required, 8-bit data, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1	[packing not required, 8-bit data, basic icon non-self-explanatory]
4	ME → USER	display "Send SM" without the icon	
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.2	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1B

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully, but requested icon could not be displayed;

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	04

27.22.4.10.3.5   Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.2B.

27.22.4.10.4 SEND SHORT MESSAGE (Support of Text Attribute)

27.22.4.10.4.1 SEND SHORT MESSAGE (Support of Text Attribute – Left Alignment)

27.22.4.10.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.1.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the left alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.1.4 Method of test

27.22.4.10.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Left Alignment, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.1.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/11, no alignment change will take place]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 1"
    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "00"
        TP-DA
        TON   International number
        NPI   "ISDN / telephone numbering plan"
        Address value   "01"
        TP-PID   Short message type 0
        TP-DCS
        Message coding   SMS default alphabet
        Message class   class 0
        TP-UDL   1

TP-UD   " "
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "01"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   SMS default alphabet
    Message class   class 0
    TP-UDL   1
    TP-UD   " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20								

SMS-PP (SEND SHORT MESSAGE) Message 4.1

Logically:

SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message

TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

BER-TLV:	01	01	02	91	10	40	F0	01	20

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.10.4.2   SEND SHORT MESSAGE (Support of Text Attribute – Center Alignment)

27.22.4.10.4.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.10.4.2.2   Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.2.3   Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the center alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.2.4   Method of test

27.22.4.10.4.2.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.2.4.2   Procedure

Expected Sequence 4.2 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Center Alignment, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/11, no alignment change will take place]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1

Logically:

        Command details
                Command number: 1
                Command type: SEND SHORT MESSAGE
                Command qualifier: packing not required
        Device identities
                Source device: UICC
                Destination device: Network
        Alpha identifier: "Text Attribute 1"
        SMS TPDU
                TP-MTI   SMS-SUBMIT
                TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
                TP-VPF   TP-VP field not present
                TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
                TP-UDHI   The TP-UD field contains only the short message
                TP-SRR   A status report is not requested
                TP-MR   "00"

TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	01	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.10.4.3   SEND SHORT MESSAGE (Support of Text Attribute – Right Alignment)

27.22.4.10.4.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.10.4.3.2   Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.3.3   Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the right alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.3.4   Method of test

27.22.4.10.4.3.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Right Alignment, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.3.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/11, no alignment change will take place]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SHORT MESSAGE
        Command qualifier:     packing not required
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha identifier:              "Text Attribute 1"
SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "00"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
        Address value          "01"
        TP-PID                 Short message type 0
        TP-DCS
        Message coding         SMS default alphabet
        Message class          class 0
        TP-UDL                 1
```

TP-UD " "
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	02	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.2

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 2"
    SMS TPDU
        TP-MTI SMS-SUBMIT
        TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF TP-VP field not present
        TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI The TP-UD field contains only the short message
        TP-SRR A status report is not requested
        TP-MR "00"
        TP-DA
        TON International number
        NPI "ISDN / telephone numbering plan"
        Address value "01"
        TP-PID Short message type 0
        TP-DCS
        Message coding SMS default alphabet
        Message class class 0
        TP-UDL 1
        TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required

Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.10.4.4 SEND SHORT MESSAGE (Support of Text Attribute – Large Font Size)

27.22.4.10.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.4.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the large font size text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.4.4 Method of test

27.22.4.10.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Large Font Size, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE

	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 1"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	1
TP-UD	" "	
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	04	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.2

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 2"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	

Message coding   SMS default alphabet
Message class   class 0
TP-UDL   1
TP-UD   " "
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.3

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 3"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "01"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   SMS default alphabet
    Message class   class 0
    TP-UDL   1
    TP-UD   " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE

	Command qualifier:	packing not required
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.4.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.10.4.5   SEND SHORT MESSAGE (Support of Text Attribute – Small Font Size)

27.22.4.10.4.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.10.4.5.2   Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.5.3   Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the small font size text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.5.4   Method of test

27.22.4.10.4.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.5.4.2   Procedure

Expected Sequence 4.5 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Small Font Size, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE

	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 1"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	1
TP-UD	" "	
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	08	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 2"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	

	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	1
TP-UD	" "	
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 3"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	1
	TP-UD	" "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE

	Command qualifier:	packing not required

Device identities

	Source device:	ME
	Destination device:	UICC

Result

	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.10.4.6   SEND SHORT MESSAGE (Support of Text Attribute – Bold On)

27.22.4.10.4.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.10.4.6.2   Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.6.3   Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the bold text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.6.4   Method of test

27.22.4.10.4.6.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.6.4.2 Procedure

Expected Sequence 4.6 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Bold On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with bold off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with bold off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC

Destination device: Network
Alpha identifier: "Text Attribute 1"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "01"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   SMS default alphabet
    Message class   class 0
    TP-UDL   1
    TP-UD   " "
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	10	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.2

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "01"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   SMS default alphabet
    Message class   class 0
    TP-UDL   1

TP-UD " "
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.3

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 3"
SMS TPDU
    TP-MTI SMS-SUBMIT
    TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF TP-VP field not present
    TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI The TP-UD field contains only the short message
    TP-SRR A status report is not requested
    TP-MR "00"
    TP-DA
    TON International number
    NPI "ISDN / telephone numbering plan"
    Address value "01"
    TP-PID Short message type 0
    TP-DCS
    Message coding SMS default alphabet
    Message class class 0
    TP-UDL 1
    TP-UD " "
Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.10.4.7 SEND SHORT MESSAGE (Support of Text Attribute – Italic On)

27.22.4.10.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.7.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the italic text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.7.4 Method of test

27.22.4.10.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Italic On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with italic off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with italic off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC

Destination device:	Network	
Alpha identifier:	"Text Attribute 1"	
SMS TPDU		
TP-MTI	SMS-SUBMIT	
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM	
TP-VPF	TP-VP field not present	
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT	
TP-UDHI	The TP-UD field contains only the short message	
TP-SRR	A status report is not requested	
TP-MR	"00"	
TP-DA		
TON	International number	
NPI	"ISDN / telephone numbering plan"	
Address value	"01"	
TP-PID	Short message type 0	
TP-DCS		
Message coding	SMS default alphabet	
Message class	class 0	
TP-UDL	1	
TP-UD	" "	
Text Attribute		
Formatting position:	0	
Formatting length:	16	
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off	
Colour:	Dark Green Foreground, Bright Yellow Background	

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	20	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.2

Logically:

Command details		
Command number:	1	
Command type:	SEND SHORT MESSAGE	
Command qualifier:	packing not required	
Device identities		
Source device:	UICC	
Destination device:	Network	
Alpha identifier:	"Text Attribute 2"	
SMS TPDU		
TP-MTI	SMS-SUBMIT	
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM	
TP-VPF	TP-VP field not present	
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT	
TP-UDHI	The TP-UD field contains only the short message	
TP-SRR	A status report is not requested	
TP-MR	"00"	
TP-DA		
TON	International number	
NPI	"ISDN / telephone numbering plan"	
Address value	"01"	
TP-PID	Short message type 0	
TP-DCS		
Message coding	SMS default alphabet	
Message class	class 0	
TP-UDL	1	

  TP-UD   " "
Text Attribute
  Formatting position: 0
  Formatting length: 16
  Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.3

Logically:

 Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
 Device identities
  Source device: UICC
  Destination device: Network
 Alpha identifier: "Text Attribute 3"
 SMS TPDU
  TP-MTI SMS-SUBMIT
  TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  TP-VPF TP-VP field not present
  TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  TP-UDHI The TP-UD field contains only the short message
  TP-SRR A status report is not requested
  TP-MR "00"
  TP-DA
  TON International number
  NPI "ISDN / telephone numbering plan"
  Address value "01"
  TP-PID Short message type 0
  TP-DCS
  Message coding SMS default alphabet
  Message class class 0
  TP-UDL 1
  TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1

Logically:

 Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required

Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.10.4.8 SEND SHORT MESSAGE (Support of Text Attribute – Underline On)

27.22.4.10.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.8.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the underline text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.8.4 Method of test

27.22.4.10.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.8.4.2   Procedure

Expected Sequence 4.8 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Underline On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with underline off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with underline off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE

		Command qualifier:	packing not required
	Device identities		
		Source device:	UICC
		Destination device:	Network
	Alpha identifier:		"Text Attribute 1"
	SMS TPDU		
		TP-MTI	SMS-SUBMIT
		TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
		TP-VPF	TP-VP field not present
		TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
		TP-UDHI	The TP-UD field contains only the short message
		TP-SRR	A status report is not requested
		TP-MR	"00"
		TP-DA	
		TON	International number
		NPI	"ISDN / telephone numbering plan"
		Address value	"01"
		TP-PID	Short message type 0
		TP-DCS	
		Message coding	SMS default alphabet
		Message class	class 0
		TP-UDL	1
		TP-UD " "	
	Text Attribute		
		Formatting position:	0
		Formatting length:	16
		Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
		Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	40	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.2

Logically:

	Command details		
		Command number:	1
		Command type:	SEND SHORT MESSAGE
		Command qualifier:	packing not required
	Device identities		
		Source device:	UICC
		Destination device:	Network
	Alpha identifier:		"Text Attribute 2"
	SMS TPDU		
		TP-MTI	SMS-SUBMIT
		TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
		TP-VPF	TP-VP field not present
		TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
		TP-UDHI	The TP-UD field contains only the short message
		TP-SRR	A status report is not requested
		TP-MR	"00"
		TP-DA	
		TON	International number
		NPI	"ISDN / telephone numbering plan"
		Address value	"01"
		TP-PID	Short message type 0
		TP-DCS	

Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Text Attribute
Formatting position:	0
Formatting length:	16
Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.3

Logically:

Command details
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required

Device identities
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 3"

SMS TPDU
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1

Logically:

Command details
Command number:	1
Command type:	SEND SHORT MESSAGE

Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.10.4.9 SEND SHORT MESSAGE (Support of Text Attribute – Strikethrough On)

27.22.4.10.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.9.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the strikethrough text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.9.4 Method of test

27.22.4.10.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.9.4.2   Procedure

Expected Sequence 4.9 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Strikethrough On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with strikethrough off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with strikethrough off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE

	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 1"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	1
	TP-UD " "	
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	80	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.2

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 2"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	

	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	1
	TP-UD	" "
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.3

Logically:

	Command details	
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
	Device identities	
	Source device:	UICC
	Destination device:	Network
	Alpha identifier:	"Text Attribute 3"
	SMS TPDU	
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"01"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	SMS default alphabet
	Message class	class 0
	TP-UDL	1
	TP-UD	" "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1

Logically:

	Command details	
	Command number:	1
	Command type:	SEND SHORT MESSAGE

	Command qualifier:	packing not required
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.10.4.10   SEND SHORT MESSAGE (Support of Text Attribute – Foreground and Background Colour)

27.22.4.10.4.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.10.4.10.2   Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- ETSI TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.10.3   Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the foreground and background colour text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.10.4   Method of test

27.22.4.10.4.10.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.4.10.4.2   Procedure

Expected Sequence 4.10 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Foreground and Background Colour, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.10.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SHORT MESSAGE
        Command qualifier:     packing not required
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha identifier:              "Text Attribute 1"
SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "00"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
        Address value          "01"
        TP-PID                 Short message type 0
        TP-DCS
        Message coding         SMS default alphabet
        Message class          class 0
        TP-UDL                 1
        TP-UD          " "
```

Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2C	81	03	01	13	00	82	02	81	83	85
10	54	65	78	74	20	41	74	74	72	69	62
75	74	65	20	31	8B	09	01	00	02	91	10
40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 2"
    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "00"
        TP-DA
        TON   International number
        NPI   "ISDN / telephone numbering plan"
        Address value   "01"
        TP-PID   Short message type 0
        TP-DCS
        Message coding   SMS default alphabet
        Message class   class 0
        TP-UDL   1
                             TP-UD   " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
10	54	65	78	74	20	41	74	74	72	69	62
75	74	65	20	32	8B	09	01	00	02	91	10
40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: ME
        Destination device: UICC
    Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.10.5 SEND SHORT MESSAGE (UCS2 display in Chinese)

27.22.4.10.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.5.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.5.4 Method of test

27.22.4.10.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.5.4.2 Procedure

Expected Sequence 5.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data in Chinese))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 5.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "中一"	[Alpha Identifier] "Middle 1" in Chinese, 0x80 coding of UCS2 format
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 5.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.2	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND SEND SHORT MESSAGE 5.1.2	
12	ME → USER	Display "中一"	[Alpha Identifier] "Middle 1" in Chinese, 0x81 coding of UCS2 format
13	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 5.1	
14	USS → ME	SMS RP-ACK	
15	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1	[Command performed successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.3	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 5.1.3	[UCS2 alphabet]
20	ME → USER	Display "中一"	[Alpha Identifier] "Middle 1" in Chinese, 0x82 coding of UCS2 format
21	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 5.1	
22	USS → ME	SMS RP-ACK	
23	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network

Alpha identifier:	"中一"	
Address		
TON:	International number	
NPI:	"ISDN / telephone numbering plan"	
Dialling number string	"112233445566778"	
SMS TPDU		
TP-MTI	SMS-SUBMIT	
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM	
TP-VPF	TP-VP field not present	
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT	
TP-UDHI	The TP-UD field contains only the short message	
TP-SRR	A status report is not requested	
TP-MR	"00"	
TP-DA		
TON	International number	
NPI	"ISDN / telephone numbering plan"	
Address value	"012345678"	
TP-PID	Short message type 0	
TP-DCS		
Message coding	16-bit data	
Message class	class 0	
TP-UDL	24	
TP-UD	"中一"	

Coding:

BER-TLV:	D0	2D	81	03	01	13	00	82	02	81	83	85
	05	80	4E	2D	4E	00	86	09	91	11	22	33
	44	55	66	77	F8	8B	10	01	00	09	91	10
	32	54	76	F8	40	08	04	4E	2D	4E	00	

SMS-PP (SEND SHORT MESSAGE) Message 5.1

Logically:

SMS TPDU		
TP-MTI	SMS-SUBMIT	
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM	
TP-VPF	TP-VP field not present	
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT	
TP-UDHI	The TP-UD field contains only the short message	
TP-SRR	A status report is not requested	
TP-MR	"00"	
TP-DA		
TON	International number	
NPI	"ISDN / telephone numbering plan"	
Address value	"012345678"	
TP-PID	Short message type 0	
TP-DCS		
Message coding	UCS2 (16-bit data)	
Message class	class 0	
TP-UDL	24	
TP-UD	"中一"	

Coding:

BER-TLV:	01	00	09	91	10	32	54	76	F8	40	08	04
	4E	2D	4E	00								

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.2

Logically:

```
Command details
      Command number:        1
      Command type:          SEND SHORT MESSAGE
      Command qualifier:     packing not required
Device identities
      Source device:         UICC
      Destination device:    Network
Alpha identifier:            "中一"
Address
      TON:                   International number
      NPI:                   "ISDN / telephone numbering plan"
      Dialling number string "112233445566778"
SMS TPDU
      TP-MTI                 SMS-SUBMIT
      TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
      TP-VPF                 TP-VP field not present
      TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
      TP-UDHI                The TP-UD field contains only the short message
      TP-SRR                 A status report is not requested
      TP-MR                  "00"
      TP-DA
      TON                    International number
      NPI                    "ISDN / telephone numbering plan"
      Address value          "012345678"
      TP-PID                 Short message type 0
      TP-DCS
      Message coding         16-bit data
      Message class          class 0
      TP-UDL                 24
      TP-UD                  "中一"
```

Coding:

BER-TLV:	D0	2D	81	03	01	13	00	82	02	81	83	85
	05	81	02	9C	AD	80	86	09	91	11	22	33
	44	55	66	77	F8	8B	10	01	00	09	91	10
	32	54	76	F8	40	08	04	4E	2D	4E	00	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.3

Logically:

```
Command details
      Command number:        1
      Command type:          SEND SHORT MESSAGE
      Command qualifier:     packing not required
Device identities
      Source device:         UICC
      Destination device:    Network
Alpha identifier:            "中一"
Address
      TON:                   International number
      NPI:                   "ISDN / telephone numbering plan"
      Dialling number string "112233445566778"
SMS TPDU
      TP-MTI                 SMS-SUBMIT
      TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
      TP-VPF                 TP-VP field not present
      TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
```

TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	16-bit data
Message class	class 0
TP-UDL	24
TP-UD	"中一"

Coding:

BER-TLV:	D0	2E	81	03	01	13	00	82	02	81	83	85
	06	82	02	4E	00	AD	80	86	09	91	11	22
	33	44	55	66	77	F8	8B	10	01	00	09	91
	10	32	54	76	F8	40	08	04	4E	2D	4E	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.10.6 SEND SHORT MESSAGE (UCS2 display in Katakana)

27.22.4.10.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.6.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.6.4 Method of test

27.22.4.10.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.6.4.2 Procedure

Expected Sequence 6.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data, in Katakana))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "80ル0"	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 6.1	["80ル1" = "80Test1"in Katakana]
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.2	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.2	[packing not required, 16-bit data]
12	ME → USER	Display "81ル1"	[Alpha Identifier]
13	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 6.2	["80ル2" = "80Test2"in Katakana]
14	USS → ME	SMS RP-ACK	
15	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.3	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.3	[packing not required, 16-bit data]
20	ME → USER	Display "82ル2"	[Alpha Identifier]
21	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 6.3	["80ル3" = "80Test3"in Katakana]
22	USS → ME	SMS RP-ACK	
23	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SEND SHORT MESSAGE
        Command qualifier:     packing not required
    Device identities
        Source device:         UICC
        Destination device:    Network
    Alpha identifier:          "80ル0"
    Address
        TON:                   International number
        NPI:                   "ISDN / telephone numbering plan"
        Dialling number string "112233445566778"
    SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept a SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "00"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
        Address value          "012345678"
        TP-PID                 Short message type 0
        TP-DCS
        Message coding         16-bit data
        Message class          class 0
        TP-UDL                 10
        TP-UD                  "80ル1"
```

Coding:

BER-TLV:	D0	35	81	03	01	13	00	82	02	81	83	85
	09	80	00	38	00	30	30	EB	00	30	86	09
	91	11	22	33	44	55	66	77	F8	8B	14	01
	00	09	91	10	32	54	76	F8	40	08	08	00
	38	00	30	30	EB	00	31					

SMS-PP (SEND SHORT MESSAGE) Message 6.1

Logically:

```
    SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "00"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
        Address value          "012345678"
        TP-PID                 Short message type 0
        TP-DCS
        Message coding         UCS2 (16-bit data)
        Message class          class 0
        TP-UDL                 10
```

TP-UD   "80ル1"

Coding:

BER-TLV:	01	00	09	91	10	32	54	76	F8	40	08	08
	00	38	00	30	30	EB	00	31				

TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.2

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "81ル1"
Address
    TON: International number
    NPI: "ISDN / telephone numbering plan"
    Dialling number string   "112233445566778"
SMS TPDU
    TP-MTI   SMS-SUBMIT
    TP-RD   Instruct the SC to accept a SMS-SUBMIT for a SM
    TP-VPF   TP-VP field not present
    TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI   The TP-UD field contains only the short message
    TP-SRR   A status report is not requested
    TP-MR   "00"
    TP-DA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "012345678"
    TP-PID   Short message type 0
    TP-DCS
    Message coding   16-bit data
    Message class   class 0
    TP-UDL   10
    TP-UD   "80ル2"

Coding:

BER-TLV:	D0	33	81	03	01	13	00	82	02	81	83	85
	07	81	04	61	38	31	EB	31	86	09	91	11
	22	33	44	55	66	77	F8	8B	14	01	00	09
	91	10	32	54	76	F8	40	08	08	00	38	00
	30	30	EB	00	32							

SMS-PP (SEND SHORT MESSAGE) Message 6.2

Logically:

```
SMS TPDU
        TP-MTI              SMS-SUBMIT
        TP-RD               Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF              TP-VP field not present
        TP-RP               TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI             The TP-UD field contains only the short message
        TP-SRR              A status report is not requested
        TP-MR               "00"
        TP-DA
        TON                 International number
        NPI                 "ISDN / telephone numbering plan"
        Address value       "012345678"
        TP-PID              Short message type 0
        TP-DCS
        Message coding      UCS2 (16-bit data)
        Message class       class 0
        TP-UDL              10
        TP-UD               "80ル2"
```

Coding:

BER-TLV:	01	00	09	91	10	32	54	76	F8	40	08	08
	00	38	00	30	30	EB	00	32				

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.3

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SHORT MESSAGE
        Command qualifier:     packing not required
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha identifier:              "82ル2"
Address
        TON:                   International number
        NPI:                   "ISDN / telephone numbering plan"
        Dialling number string "112233445566778"
SMS TPDU
        TP-MTI                 SMS-SUBMIT
        TP-RD                  Instruct the SC to accept a SMS-SUBMIT for a SM
        TP-VPF                 TP-VP field not present
        TP-RP                  TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI                The TP-UD field contains only the short message
        TP-SRR                 A status report is not requested
        TP-MR                  "00"
        TP-DA
        TON                    International number
        NPI                    "ISDN / telephone numbering plan"
```

Address value	"012345678"	
TP-PID	Short message type 0	
TP-DCS		
Message coding	16-bit data	
Message class	class 0	
TP-UDL	10	
TP-UD	"80ル3"	

Coding:

BER-TLV:	D0	34	81	03	01	13	00	82	02	81	83	85
	08	82	04	30	A0	38	32	CB	32	86	09	91
	11	22	33	44	55	66	77	F8	8B	14	01	00
	09	91	10	32	54	76	F8	40	08	08	00	38
	00	30	30	EB	00	33						

SMS-PP (SEND SHORT MESSAGE) Message 6.3

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT	
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM	
TP-VPF	TP-VP field not present	
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT	
TP-UDHI	The TP-UD field contains only the short message	
TP-SRR	A status report is not requested	
TP-MR	"00"	
TP-DA		
TON	International number	
NPI	"ISDN / telephone numbering plan"	
Address value	"012345678"	
TP-PID	Short message type 0	
TP-DCS		
Message coding	UCS2 (16-bit data)	
Message class	class 0	
TP-UDL	10	
TP-UD	"80ル3"	

Coding:

BER-TLV:	01	00	09	91	10	32	54	76	F8	40	08	08
	00	38	00	30	30	EB	00	33				

27.22.4.10.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.11 SEND SS

27.22.4.11.1 SEND SS (normal)

27.22.4.11.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.1.3 Test purpose

To verify that the ME correctly translates and sends the supplementary service request indicated in the SEND SS proactive UICC command to the USS.

To verify that the ME returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the SS and any contents of the SS result as additional data.

27.22.4.11.1.4 Method of test

27.22.4.11.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.1.4.2 Procedure

Expected Sequence 1.1 (SEND SS, call forward unconditional, all bearers, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1	

PROACTIVE COMMAND: SEND SS 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Call Forward"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*0123456789012345 6789*10#"

Coding:

BER-TLV:	D0	29	81	03	01	11	00	82	02	81	83	85
	0C	43	61	6C	6C	20	46	6F	72	77	61	72
	64	89	10	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	A9	01	FB					

REGISTER 1.1

Logically (only SS argument):

    REGISTER SS ARGUMENT
        SS-Code:
        - Call Forwarding Unconditional
        TeleserviceCode
        - All Tele Services
        ForwardedToNumber
        - nature of address ind.: international
        - numbering plan ind.: ISDN/Telephony (E.164)
        - TBCD String: 01234567890123456789

Coding:

BER-TLV	30	13	04	01	21	83	01	00	84	0B	91	10
	32	54	76	98	10	32	54	76	98			

RELEASE COMPLETE (SS RETURN RESULT) 1.1

Logically (only from operation code):

    REGISTER SS RETURN RESULT
        ForwardingInfo
        SS-Code
        - Call Forwarding Unconditional
        ForwardFeatureList
        ForwardingFeature
        TeleserviceCode
        - All Tele Services
        SS-Status
        - state ind.: operative
        - provision ind.: provisioned
        - registration ind.: registered
        - activation ind.: active
        ForwardedToNumber
        - nature of address ind.: international
        - numbering plan ind.: ISDN/Telephony (E.164)
        - TBCD String: 01234567890123456789

Coding:

BER-TLV	0A	A0	1A	04	01	21	30	15	30	13	83	01
	00	84	01	07	84	0B	91	10	32	54	76	98
	10	32	54	76	98							

TERMINAL RESPONSE: SEND SS 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

Expected Sequence 1.2 (SEND SS, call forward unconditional, all bearers, Return Error)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN ERROR) 1.1	[Return Error]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.2.1	

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from error code):

   Error Code: Facility not supported

Coding:

BER-TLV	02	11	15

TERMINAL RESPONSE: SEND SS 1.2.1

Logically:

   Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
   Device identities
        Source device: ME
        Destination device: UICC
   Result
        General Result: SS Return Error
        Additional information: Error Code

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	02
	34	15									

Expected Sequence 1.3 (SEND SS, call forward unconditional, all bearers, Reject)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS REJECT) 1.1.	[Reject]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.3.1	

RELEASE COMPLETE (SS REJECT) 1.1

Logically (only from problem code):

Problem Code:
>> - General problem
>> - Unrecognized component

Coding:

BER-TLV	80	01	00

TERMINAL RESPONSE: SEND SS 1.3.1

Logically:

Command details
>> Command number: 1
>> Command type: SEND SS
>> Command qualifier: "00"
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: SS Return Error
>> Additional information: No specific cause can be given

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	02
	34	00									

Expected Sequence 1.4 (SEND SS, call forward unconditional, all bearers, successful, SS request size limit)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.4.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.2	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.4.1	

PROACTIVE COMMAND: SEND SS 1.4.1

Logically:

Command details
>> Command number: 1
>> Command type: SEND SS
>> Command qualifier: "00"
> Device identities
>> Source device: UICC
>> Destination device: Network
>> Alpha identifier: "Call Forward"
> SS String
>> TON: International
>> NPI: "ISDN / telephone numbering plan"
>> SS string: "**21*01234567890123456789012345678901234567*11#"

Coding:

BER-TLV:	D0	32	81	03	01	11	00	82	02	81	83	85
	0C	43	61	6C	6C	20	46	6F	72	77	61	72
	64	89	19	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	09	21	43	65	87	09	21	43
	65	A7	11	FB								

REGISTER 1.2

Logically (only SS argument):

> REGISTER SS ARGUMENT
>> RegisterSSArg
>> SS-Code
>> Call Forwarding Unconditional
>> TeleserviceCode
>> Telephony
>> ForwardedToNumber
>> nature of address ind.:   international
>> numbering plan ind.:   ISDN/Telephony (E.164)
>> TBCD String: 012345678901234567890123456789012345 67

Coding:

BER-TLV	30	1C	04	01	21	83	01	11	84	14	91	10
	32	54	76	98	10	32	54	76	98	10	32	54
	76	98	10	32	54	76						

RELEASE COMPLETE (SS RETURN RESULT) 1.2

Logically (only from operation code):

> REGISTER SS RETURN RESULT
>> ForwardingInfo
>> SS-Code
>> - Call Forwarding Unconditional
>> ForwardFeatureList
>> ForwardingFeature
>> TeleserviceCode
>> - Telephony
>> SS-Status
>> - state ind.: operative
>> - provision ind.: provisioned
>> - registration ind.: registered
>> - activation ind.: active
>> ForwardedToNumber
>> - nature of address ind.: international
>> - numbering plan ind.: ISDN/Telephony (E.164)
>> - TBCD String: 01234567890123456789012345678901234567

Coding:

BER-TLV	0A	A0	23	04	01	21	30	1E	30	1C	83	01
	11	84	01	07	84	14	91	10	32	54	76	98
	10	32	54	76	98	10	32	54	76	98	10	32
	54	76										

TERMINAL RESPONSE: SEND SS 1.4.1

Logically:

Command details
  Command number: 1
  Command type: SEND SS
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
  Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	27
	00	0A	A0	23	04	01	21	30	1E	30	1C
	83	01	11	84	01	07	84	14	91	10	32
	54	76	98	10	32	54	76	98	10	32	54
	76	98	10	32	54	76					

Expected Sequence 1.5 (SEND SS, interrogate CLIR status, successful, alpha identifier limits)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.5.1	
4	ME → USER	Display "Even if the Fixed Dialling Number service is enabled, the supplementary service control string included in the SEND SS proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci"	
5	ME → USS	REGISTER 1.3	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.3	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.5.1	

PROACTIVE COMMAND: SEND SS 1.5.1

Logically:

Command details
  Command number: 1
  Command type: SEND SS
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
  Alpha identifier: "Even if the Fixed Dialling Number service is enabled, the supplementary service
                      control string included in the SEND SS proactive command shall not be checked
                      against those of the FDN list. Upon receiving this command, the ME shall deci"
SS String
  TON: Undefined
  NPI: Undefined
  SS string: "*#31#"

Coding:

BER-TLV:	D0	81	FD	81	03	01	11	00	82	02	81	83
	85	81	EB	45	76	65	6E	20	69	66	20	74
	68	65	20	46	69	78	65	64	20	44	69	61
	6C	6C	69	6E	67	20	4E	75	6D	62	65	72
	20	73	65	72	76	69	63	65	20	69	73	20
	65	6E	61	62	6C	65	64	2C	20	74	68	65
	20	73	75	70	70	6C	65	6D	65	6E	74	61
	72	79	20	73	65	72	76	69	63	65	20	63
	6F	6E	74	72	6F	6C	20	73	74	72	69	6E
	67	20	69	6E	63	6C	75	64	65	64	20	69
	6E	20	74	68	65	20	53	45	4E	44	20	53
	53	20	70	72	6F	61	63	74	69	76	65	20
	63	6F	6D	6D	61	6E	64	20	73	68	61	6C
	6C	20	6E	6F	74	20	62	65	20	63	68	65
	63	6B	65	64	20	61	67	61	69	6E	73	74
	20	74	68	6F	73	65	20	6F	66	20	74	68
	65	20	46	44	4E	20	6C	69	73	74	2E	20
	55	70	6F	6E	20	72	65	63	65	69	76	69
	6E	67	20	74	68	69	73	20	63	6F	6D	6D
	61	6E	64	2C	20	74	68	65	20	4D	45	20
	73	68	61	6C	6C	20	64	65	63	69	89	04
	FF	BA	13	FB								

REGISTER 1.3

Logically (only SS argument):

    INTERROGATE SS ARGUMENT
        SS-Code
        - Calling Line Id Restriction

Coding:

BER-TLV	30	03	04	01	12

RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from operation code):

    INTERROGATE SS RESULT
        CliRestrictionInfo
        SS-Status
        - state ind.: operative
        - provision ind.: provisioned
        - registration ind.: registered
        - activation ind.: not active
        CliRestrictionOption
        - Temporary Def Allowed

Coding:

BER-TLV	0E	A4	06	04	01	06	0A	01	02

TERMINAL RESPONSE: SEND SS 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Additional information
    Operation Code: SS Code
    Parameters: SS Return Result

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	0A
	00	0E	A4	06	04	01	06	0A	01	02	

Expected Sequence 1.6 (SEND SS, call forward unconditional, all bearers, successful, null data alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.6.1	
4	ME	Should not give any information to the user on the fact that the ME is sending an SS request	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1	

PROACTIVE COMMAND: SEND SS 1.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: null data object
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	1D	81	03	01	11	00	82	02	81	83	85
	00	89	10	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	A9	01	FB					

27.22.4.11.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.1 to 1.6.

27.22.4.11.2 SEND SS (Icon support)

27.22.4.11.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.2.2 Conformance requirement

27.22.4.11.2.3 Test purpose

To verify that the ME displays the text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

In addition to verify that if an icon is provided by the UICC, the icon indicated in the command may be used by the ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

27.22.4.11.2.4 Method of test

27.22.4.11.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

The elementary files are coded as Toolkit default.

27.22.4.11.2.4.2 Procedure

Expected Sequence 2.1A (SEND SS, call forward unconditional, all bearers, successful, basic icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display the basic icon without the alpha identifier	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Basic Icon"
    SS String
        TON: International
        NPI: "ISDN / telephone numbering plan"
        SS string: "**21*0123456789*10#"
    Icon Identifier:
        Icon qualifier: icon is self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

BER-TLV:	D0	2B	81	03	01	11	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	89
	10	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	A9	01	FB	9E	02	00	01			

TERMINAL RESPONSE: SEND SS 2.1.1A

Logically:

Command details
 Command number: 1
 Command type: SEND SS
 Command qualifier: "00"
Device identities
 Source device: ME
 Destination device: UICC
Result
 General Result: Command performed successfully
 Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

Expected Sequence 2.1B (SEND SS, call forward unconditional, all bearers, successful, basic icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: SEND SS 2.1.1B

Logically:

Command details
 Command number: 1
 Command type: SEND SS
 Command qualifier: "00"
Device identities
 Source device: ME
 Destination device: UICC
Result
 General Result: Command performed successfully, but requested icon could not be displayed
 Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	04	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

Expected Sequence 2.2A (SEND SS, call forward unconditional, all bearers, successful, colour icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display the colour icon without thealpha identifier	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 2.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Colour Icon"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Icon Identifier:
    Icon qualifier: icon is self-explanatory
    Icon Identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	2C	81	03	01	11	00	82	02	81	83	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	89	10	91	AA	12	0A	21	43	65	87	09	21
	43	65	87	A9	01	FB	9E	02	00	02		

Expected Sequence 2.2B (SEND SS, call forward unconditional, all bearers, successful, colour icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display "Colour Icon" without the icon	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1B	[Command performed but requested icon could not be displayed]

Expected Sequence 2.3A (SEND SS, call forward unconditional, all bearers, successful, basic icon non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" and the basic icon	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 2.3.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SS
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha Identifier
        Text:                  "Basic Icon"
SS String
        TON:                   International
        NPI:                   "ISDN / telephone numbering plan"
        SS string:             "**21*0123456789012345 6789*10#"
Icon Identifier
        Icon qualifier:        icon is non self-explanatory
        Icon Identifier:       record 1 in EF(IMG)
```

Coding:

BER-TLV:	D0	2B	81	03	01	11	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	89
	10	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	A9	01	FB	9E	02	01	01			

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Expected Sequence 2.3B (SEND SS, call forward unconditional, all bearers, successful, basic icon non self-explanatory)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1B	[Command performed but requested icon could not be displayed]

Expected Sequence 2.4 (SEND SS, call forward unconditional, all bearers, successful, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.4.1	[BASIC-ICON, non self-explanatory]
4	ME → UICC	TERMINAL RESPONSE: SEND SS 2.4.1	[Command data not understood by ME]

PROACTIVE COMMAND: SEND SS 2.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789#"
Icon Identifier
    Icon qualifier: icon is non self-explanatory
    Icon Identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1D	81	03	01	11	00	82	02	81	83	89
	0E	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	B9	9E	02	01	01					

TERMINAL RESPONSE: SEND SS 2.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS

           Command qualifier: "00"
      Device identities
           Source device: ME
           Destination device: UICC
    Result
           General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	83	01	32

27.22.4.11.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1A to 2.4.

27.22.4.11.3 SEND SS (UCS2 display in Cyrillic)

27.22.4.11.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.3.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.11.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.3.4 Method of test

27.22.4.11.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.3.4.2   Procedure

Expected Sequence 3.1 (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 3.1.1	
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 3.1.1

Logically:

     Command details
          Command number: 1
          Command type: SEND SS
          Command qualifier: "00"
     Device identities
          Source device: UICC
          Destination device: Network
          Alpha Identifier
          Data coding scheme: UCS2 (16bit)
          Text: "ЗДРАВСТВУЙТЕ"
     SS String
          TON: International
          NPI: "ISDN / telephone numbering plan"
          SS string: "**21*0123456789012345 6789*10#"

Coding:

BER-TLV:	D0	36	81	03	01	11	00	82	02	81	83	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	89	10	91	AA	12	0A	21	43	65	87
	09	21	43	65	87	A9	01	FB				

27.22.4.11.3.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.11.4   SEND SS (support of Text Attribute)

27.22.4.11.4.1   SEND SS (support of Text Attribute – Left Alignment)

27.22.4.11.4.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.11.4.1.2   Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.1.3 Test purpose

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.1.4 Method of test

27.22.4.11.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.1.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.1.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.1.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1	

PROACTIVE COMMAND: SEND SS 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network

Alpha identifier: "Text Attribute 1"
SS String
        TON: International
        NPI: "ISDN / telephone numbering plan"
SS string: "**21*0123456789012345 6789*10#"
Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.1.2

Logically:

Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
Device identities
        Source device: UICC
        Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
        TON: International
        NPI: "ISDN / telephone numbering plan"
        SS string: "**21*0123456789012345 6789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

REGISTER 4.1

Logically (only SS argument):

REGISTER SS ARGUMENT
        SS-Code:
        - Call Forwarding Unconditional
        TeleserviceCode
        - All Tele Services
        ForwardedToNumber
        - nature of address ind.: international
        - numbering plan ind.: ISDN/Telephony (E.164)
        - TBCD String: 0123456789012345 6789

Coding:

BER-TLV	30	13	04	01	21	83	01	00	84	0B	91	10
	32	54	76	98	10	32	54	76	98			

RELEASE COMPLETE (SS RETURN RESULT) 4.1

Logically (only from operation code):

    REGISTER SS RETURN RESULT
        ForwardingInfo
        SS-Code
        - Call Forwarding Unconditional
        ForwardFeatureList
        ForwardingFeature
        TeleserviceCode
        - All Tele Services
        SS-Status
        - state ind.: operative
        - provision ind.: provisioned
        - registration ind.: registered
        - activation ind.: active
        ForwardedToNumber
        - nature of address ind.: international
        - numbering plan ind.: ISDN/Telephony (E.164)
        - TBCD String: 01234567890123456789

Coding:

BER-TLV	0A	A0	1A	04	01	21	30	15	30	13	83	01
	00	84	01	07	84	0B	91	10	32	54	76	98
	10	32	54	76	98							

TERMINAL RESPONSE: SEND SS 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.11.4.2   SEND SS (support of Text Attribute – Center Alignment)

27.22.4.11.4.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.11.4.2.2   Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.2.3   Test purpose

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.2.4   Method of test

27.22.4.11.4.2.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.2.4.2   Procedure

Expected Sequence 4.2 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.2.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.2.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.2.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.2.1	

PROACTIVE COMMAND: SEND SS 4.2.1

Logically:

Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"

Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough
                          Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	01	B4							

PROACTIVE COMMAND: SEND SS 4.2.2

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.11.4.3 SEND SS (support of Text Attribute – Right Alignment)

27.22.4.11.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.3.3 Test purpose

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.3.4 Method of test

27.22.4.11.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.3.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.3.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.3.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.3.1	

PROACTIVE COMMAND: SEND SS 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 1"
    SS String
        TON: International
        NPI: "ISDN / telephone numbering plan"
        SS string: "**21*01234567890123456789*10#"
    Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough
                             Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	02	B4							

PROACTIVE COMMAND: SEND SS 4.3.2

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.3.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.11.4.4   SEND SS (support of Text Attribute – Large Font Size)

27.22.4.11.4.4.1   Definition and applicability

See clause 3.2.2.

27.22.4.11.4.4.2   Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.4.3   Test purpose

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.4.4   Method of test

27.22.4.11.4.4.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.4.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.4.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.4.1	

PROACTIVE COMMAND: SEND SS 4.4.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network

Alpha identifier: "Text Attribute 1"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	04	B4							

PROACTIVE COMMAND: SEND SS 4.4.2

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.4.3

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 3"
SS String

	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.4.1

Logically:

	Command details	
	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"
	Device identities	
	Source device:	ME
	Destination device:	UICC
	Result	
	General Result:	Command performed successfully
	Additional information:	Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.11.4.5 SEND SS (support of Text Attribute – Small Font Size)

27.22.4.11.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.5.3 Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.5.4   Method of test

27.22.4.11.4.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.5.4.2   Procedure

Expected Sequence 4.5 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.5.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.5.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.5.1	

PROACTIVE COMMAND: SEND SS 4.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	08	B4							

PROACTIVE COMMAND: SEND SS 4.5.2

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.5.3

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SS
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha identifier:              "Text Attribute 3"
SS String
        TON:                   International
        NPI:                   "ISDN / telephone numbering plan"
        SS string:             "**21*01234567890123456789*10#"
```

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.5.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SS
        Command qualifier:     "00"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
        Additional information: Operation Code and SS Parameters
```

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.11.4.6 SEND SS (support of Text Attribute – Bold On)

27.22.4.11.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.6.3   Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.6.4   Method of test

27.22.4.11.4.6.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.6.4.2 Procedure

Expected Sequence 4.6 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with bold off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.6.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.6.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with bold off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.6.1	

PROACTIVE COMMAND: SEND SS 4.6.1

Logically:

```
    Command details
            Command number:        1
            Command type:          SEND SS
            Command qualifier:     "00"
    Device identities
            Source device:         UICC
            Destination device:    Network
    Alpha identifier:              "Text Attribute 1"
    SS String
            TON:                   International
```

	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	10	B4							

PROACTIVE COMMAND: SEND SS 4.6.2

Logically:

Command details		
	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 2"
SS String		
	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"
Text Attribute		
	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.6.3

Logically:

Command details		
	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 3"
SS String		
	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.11.4.7 SEND SS (support of Text Attribute – Italic On)

27.22.4.11.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.7.3 Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.7.4 Method of test

27.22.4.11.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with italic off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.7.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.7.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with italic off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.7.1	

PROACTIVE COMMAND: SEND SS 4.7.1

Logically:

```
    Command details
            Command number:        1
            Command type:          SEND SS
            Command qualifier:     "00"
    Device identities
            Source device:         UICC
            Destination device:    Network
    Alpha identifier:              "Text Attribute 1"
    SS String
            TON:                   International
```

| | | NPI: | | "ISDN / telephone numbering plan" |
| | | SS string: | | "**21*01234567890123456789*10#" |

Text Attribute

	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	20	B4							

PROACTIVE COMMAND: SEND SS 4.7.2

Logically:

Command details

	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"

Device identities

| | Source device: | UICC |
| | Destination device: | Network |

Alpha identifier: "Text Attribute 2"

SS String

	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"

Text Attribute

	Formatting position:	0
	Formatting length:	16
	Formatting mode:	Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
	Colour:	Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.7.3

Logically:

Command details

	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"

Device identities

| | Source device: | UICC |
| | Destination device: | Network |

Alpha identifier: "Text Attribute 3"

SS String

	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.7.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.11.4.8   SEND SS (support of Text Attribute – Underline On)

27.22.4.11.4.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.11.4.8.2   Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.8.3   Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.8.4   Method of test

27.22.4.11.4.8.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.8.4.2 Procedure

Expected Sequence 4.8 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with underline off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.8.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.8.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with underline off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.8.1	

PROACTIVE COMMAND: SEND SS 4.8.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network

Alpha identifier: "Text Attribute 1"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	40	B4							

PROACTIVE COMMAND: SEND SS 4.8.2

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.8.3

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 3"
SS String

	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.8.1

Logically:

	Command details	
	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"
	Device identities	
	Source device:	ME
	Destination device:	UICC
	Result	
	General Result:	Command performed successfully
	Additional information:	Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.11.4.9 SEND SS (support of Text Attribute – Strikethrough On)

27.22.4.11.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.9.3 Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.9.4 Method of test

27.22.4.11.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.9.4.2 Procedure

Expected Sequence 4.9 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with strikethrough off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.9.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.9.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with strikethrough off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.9.1	

PROACTIVE COMMAND: SEND SS 4.9.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SS
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha identifier:              "Text Attribute 1"
SS String
        TON:                   International
        NPI:                   "ISDN / telephone numbering plan"
        SS string:             "**21*01234567890123456789*10#"
Text Attribute
        Formatting position:   0
        Formatting length:     16
        Formatting mode:       Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
        Colour:                Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	80	B4							

PROACTIVE COMMAND: SEND SS 4.9.2

Logically:

```
Command details
        Command number:        1
        Command type:          SEND SS
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha identifier:              "Text Attribute 2"
SS String
        TON:                   International
        NPI:                   "ISDN / telephone numbering plan"
        SS string:             "**21*01234567890123456789*10#"
Text Attribute
                Formatting position: 0
                Formatting length:   16
                Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
        Colour:                Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.9.3

Logically:

```
Command details
    Command number:        1
    Command type:          SEND SS
    Command qualifier:     "00"
Device identities
    Source device:         UICC
    Destination device:    Network
Alpha identifier:          "Text Attribute 3"
SS String
    TON:                   International
    NPI:                   "ISDN / telephone numbering plan"
    SS string:             "**21*01234567890123456789*10#"
```

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.9.1

Logically:

```
Command details
    Command number:        1
    Command type:          SEND SS
    Command qualifier:     "00"
Device identities
    Source device:         ME
    Destination device:    UICC
Result
    General Result:        Command performed successfully
    Additional information: Operation Code and SS Parameters
```

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.11.4.10   SEND SS (support of Text Attribute – Foreground and Background Colour)

27.22.4.11.4.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.11.4.10.2   Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- 3GPP TS 31.111 15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.10.3   Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.10.4   Method of test

27.22.4.11.4.10.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.10.4.2   Procedure

Expected Sequence 4.10 (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.10.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.10.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.10.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.10.1	

PROACTIVE COMMAND: SEND SS 4.10.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 1"
    SS String
        TON: International
        NPI: "ISDN / telephone numbering plan"

SS string: "**21*01234567890123456789*10#"
Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.10.2

Logically:

Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
Device identities
        Source device: UICC
        Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
        TON: International
        NPI: "ISDN / telephone numbering plan"
        SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

TERMINAL RESPONSE: SEND SS 4.10.1

Logically:

Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully
        Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

27.22.4.11.4.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.11.5   SEND SS (UCS2 display in Chinese)

27.22.4.11.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.11.5.2   Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in: ISO/IEC 10646 [17].

27.22.4.11.5.3   Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.5.4   Method of test

27.22.4.11.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.5.4.2   Procedure

Expected Sequence 5.1 (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Chinese)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 5.1.1	
4	ME → USER	Display "你好"	["Hello" in Chinese]
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
    Device identities
        Source device: UICC

	Destination device:	Network
	Alpha Identifier	
	Data coding scheme:	UCS2 (16bit)
	Text:	"你好"
SS String		
	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789#"

Coding:

BER-TLV:	D0	20	81	03	01	11	00	82	02	81	83	85
	05	80	4F	60	59	7D	89	0E	91	AA	12	0A
	21	43	65	87	09	21	43	65	87	B9		

27.22.4.11.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.11.6 SEND SS (UCS2 display in Katakana)

27.22.4.11.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in: ISO/IEC 10646 [17].

27.22.4.11.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.6.4 Method of test

27.22.4.11.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.6.4.2   Procedure

Expected Sequence 6.1 (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Katakana)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 6.1.1	
4	ME → USER	Display "ﾙﾚ"	["Test" in Katakana]
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 6.1.1

Logically:

Command details
        Command number: 1
        Command type: SEND SS
        Command qualifier: "00"
Device identities
        Source device: UICC
        Destination device: Network
        Alpha Identifier
        Data coding scheme: UCS2 (16bit)
        Text: "ﾙﾚ"
SS String
        TON: International
        NPI: "ISDN / telephone numbering plan"
        SS string: "**21*01234567890123456789#"

Coding:

BER-TLV:	D0	1E	81	03	01	11	00	82	02	81	83	85
	03	80	30	EB	89	0E	91	AA	12	0A	21	43
	65	87	09	21	43	65	87	B9				

27.22.4.11.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.12   SEND USSD

27.22.4.12.1   SEND USSD (normal)

27.22.4.12.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.1.2   Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- ETSI TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.12.1.3   Test purpose

To verify that the ME correctly translates and sends the unstructured supplementary service request indicated in the SEND USSD proactive UICC command to the USS.

To verify that the ME returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the USSD request and including a USSD result as a text string in the TERMINAL RESPONSE.

27.22.4.12.1.4   Method of test

27.22.4.12.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.1.4.2   Procedure

Expected Sequence 1.1 (SEND USSD, 7-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "7-bit USSD"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
                               1234567890"

Coding:

BER-TLV:	D0	50	81	03	01	12	00	82	02	81	83	85
	0A	37	2D	62	69	74	20	55	53	53	44	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60		

REGISTER 1.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
    USSD-DataCodingScheme:
    - 7-bit default, no message class
    USSD string:
    - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 1.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
    USSD-DataCodingScheme:
    - 7-bit default, no message class
    USSD string:
    - "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

Expected Sequence 1.2 (SEND USSD, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.2.1	
4	ME → USER	Display "8-bit USSD"	
5	ME → USS	REGISTER 1.2	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.2.1	

PROACTIVE COMMAND: SEND USSD 1.2.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND USSD
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
        Alpha identifier:      "8-bit USSD"
USSD String
        Data coding scheme:    Uncompressed, no message class meaning, 8-bit data
        USSD string:           "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
                               1234567890"
```

Coding:

BER-TLV:	D0	58	81	03	01	12	00	82	02	81	83	85
	0A	38	2D	62	69	74	20	55	53	53	44	8A
	41	44	41	42	43	44	45	46	47	48	49	4A
	4B	4C	4D	4E	4F	50	51	52	53	54	55	56
	57	58	59	5A	2D	61	62	63	64	65	66	67
	68	69	6A	6B	6C	6D	6E	6F	70	71	72	73
	74	75	76	77	78	79	7A	2D	31	32	33	34
	35	36	37	38	39	30						

REGISTER 1.2

Logically (only USSD argument):

```
ProcessUnstructuredSS-Request ARGUMENT
        USSD-DataCodingScheme:
        - Uncompressed, no message class meaning, 8-bit data
        USSD string:
        - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
```

Coding:

BER-TLV	30	45	04	01	44	04	40	41	42	43	44	45
	46	47	48	49	4A	4B	4C	4D	4E	4F	50	51
	52	53	54	55	56	57	58	59	5A	2D	61	62
	63	64	65	66	67	68	69	6A	6B	6C	6D	6E
	6F	70	71	72	73	74	75	76	77	78	79	7A
	2D	31	32	33	34	35	36	37	38	39	30	

RELEASE COMPLETE (SS RETURN RESULT) 1.2

Logically (only from USSD result):

    ProcessUnstructuredSS-Request RETURN RESULT
        USSD-DataCodingScheme:
        - Uncompressed, no message class meaning, 8-bit data
        USSD string:
        - "USSD string received from SS"

Coding:

BER-TLV	30	21	04	01	44	04	1C	55	53	53	44	20
	73	74	72	69	6E	67	20	72	65	63	65	69
	76	65	64	20	66	72	6F	6D	20	53	53	

TERMINAL RESPONSE: SEND USSD 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: Uncompressed, no message class meaning, 8-bit data
        String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1D	04	55	53	53	44	20	73	74
	72	69	6E	67	20	72	65	63	65	69	76
	65	64	20	66	72	6F	6D	20	53	53	

Expected Sequence 1.3 (SEND USSD, UCS2 data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.3.1	
4	ME → USER	Display "UCS2 USSD"	
5	ME → USS	REGISTER 1.3	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.3	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.3.1	

PROACTIVE COMMAND: SEND USSD 1.3.1

Logically:

```
Command details
       Command number:        1
       Command type:          SEND USSD
       Command qualifier:     "00"
Device identities
       Source device:         UICC
       Destination device:    Network
       Alpha identifier:      "UCS2 USSD"
USSD String
       Data coding scheme:    Uncompressed, no message class meaning, UCS2 (16 bit)
       USSD string:           "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)
```

Coding:

BER-TLV:	D0	2F	81	03	01	12	00	82	02	81	83	85
	09	55	43	53	32	20	55	53	53	44	8A	19
	48	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15											

REGISTER 1.3

Logically (only USSD argument):

```
ProcessUnstructuredSS-Request ARGUMENT
       USSD-DataCodingScheme:
       - Uncompressed, no message class meaning, UCS2 (16 bit)
       USSD string:
       - "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)
```

Coding:

BER-TLV	30	1D	04	01	48	04	18	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15					

RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from USSD result):

```
ProcessUnstructuredSS-Request RETURN RESULT
       USSD-DataCodingScheme:
       - Uncompressed, no message class meaning, UCS2 (16 bit)
       USSD string:
       - "USSD string received from SS"
```

Coding:

BER-TLV	30	3D	04	01	48	04	38	00	55	00	53	00
	53	00	44	00	20	00	73	00	74	00	72	00
	69	00	6E	00	67	00	20	00	72	00	65	00
	63	00	65	00	69	00	76	00	65	00	64	00
	20	00	66	00	72	00	6F	00	6D	00	20	00
	53	00	53									

TERMINAL RESPONSE: SEND USSD 1.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: Uncompressed, no message class meaning, UCS2 (16 bit)
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	39	08	00	55	00	53	00	53	00
	44	00	20	00	73	00	74	00	72	00	69
	00	6E	00	67	00	20	00	72	00	65	00
	63	00	65	00	69	00	76	00	65	00	64
	00	20	00	66	00	72	00	6F	00	6D	00
	20	00	53	00	53						

Expected Sequence 1.4 (SEND USSD, 7-bit data, unsuccessful (Return Error))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN ERROR) 1.1	Return Error
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.4.1	

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from Return Error code):

    ProcessUnstructuredSS-Request RETURN ERROR
        Return Error code:
        - Unknown alphabet

Coding:

BER-TLV	02	01	47

TERMINAL RESPONSE: SEND USSD 1.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: USSD Return Error
    Additional information: "Unknown alphabet"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	02
	37	47									

Expected Sequence 1.5 (SEND USSD, 7-bit data, unsuccessful (Reject))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS REJECT) 1.1	Reject
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.5.1	

RELEASE COMPLETE (SS REJECT) 1.1

Logically (only from Problem code):

    ProcessUnstructuredSS-Request REJECT
            Invoke Problem code:
            - Mistyped parameter

Coding:

BER-TLV	81	01	02

TERMINAL RESPONSE: SEND USSD 1.5.1

Logically:

    Command details
            Command number: 1
            Command type: SEND USSD
            Command qualifier: "00"
    Device identities
            Source device: ME
            Destination device: UICC
    Result
            General Result: USSD Return Error
            Additional information: "No specific cause can be given"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	02
	37	00									

Expected Sequence 1.6 (SEND USSD, 256 octets, 7-bit data, successful, long alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.6.1	
4	ME → USER	Display "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the UICC that the command has"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the UICC that the command has"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	81	FD	81	03	01	12	00	82	02	81	83
	85	81	B6	6F	6E	63	65	20	61	20	52	45
	4C	45	41	53	45	20	43	4F	4D	50	4C	45
	54	45	20	6D	65	73	73	61	67	65	20	63
	6F	6E	74	61	69	6E	69	6E	67	20	74	68
	65	20	55	53	53	44	20	52	65	74	75	72
	6E	20	52	65	73	75	6C	74	20	6D	65	73
	73	61	67	65	20	6E	6F	74	20	63	6F	6E
	74	61	69	6E	69	6E	67	20	61	6E	20	65
	72	72	6F	72	20	68	61	73	20	62	65	65
	6E	20	72	65	63	65	69	76	65	64	20	66
	72	6F	6D	20	74	68	65	20	6E	65	74	77
	6F	72	6B	2C	20	74	68	65	20	4D	45	20
	73	68	61	6C	6C	20	69	6E	66	6F	72	6D
	20	74	68	65	20	53	49	4D	20	74	68	61
	74	20	74	68	65	20	63	6F	6D	6D	61	6E
	64	20	68	61	73	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

Expected Sequence 1.7 (SEND USSD, 7-bit data, successful, no alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.7.1	
4	ME → USER	Optionally display an informative message	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.7.1

Logically:

    Command details
            Command number: 1
            Command type: SEND USSD
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: Network
    USSD String
            Data coding scheme: 7-bit default, no message class
            USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
                                    1234567890"

Coding:

BER-TLV:	D0	44	81	03	01	12	00	82	02	81	83	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60		

Expected Sequence 1.8 (SEND USSD, 7-bit data, successful, null length alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.8.1	
4	ME → USER	the ME should not give any information to the user on the fact that the ME is sending a USSD request	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.8.1

Logically:

    Command details
            Command number: 1
            Command type: SEND USSD
            Command qualifier: "00"
    Device identities

ETSI

    Source device: UICC
    Destination device: Network
    Alpha identifier: ""
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	46	81	03	01	12	00	82	02	81	83	85
	00	8A	39	F0	41	E1	90	58	34	1E	91	49
	E5	92	D9	74	3E	A1	51	E9	94	5A	B5	5E
	B1	59	6D	2B	2C	1E	93	CB	E6	33	3A	AD
	5E	B3	DB	EE	37	3C	2E	9F	D3	EB	F6	3B
	3E	AF	6F	C5	64	33	5A	CD	76	C3	E5	60

27.22.4.12.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 - 1.8.

27.22.4.12.2 SEND USSD (Icon support)

27.22.4.12.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.2.2 Conformance requirement

27.22.4.12.2.3 Test purpose

To verify that the ME displays the text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

In addition to verify that if an icon is provided by the UICC, the icon indicated in the command may be used by the ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

27.22.4.12.2.4 Method of test

27.22.4.12.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS

The elementary files are coded as Toolkit default.

27.22.4.12.2.4.2   Procedure

Expected Sequence 2.1A (SEND USSD, 7-bit data, successful, basic icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display BASIC ICON	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 2.1.1

Logically:

Command details
　　　　Command number:　　　1
　　　　Command type:　　　　SEND USSD
　　　　Command qualifier:　　"00"
Device identities
　　　　Source device:　　　　UICC
　　　　Destination device:　　Network
　　　　Alpha identifier:　　　"Basic Icon"
USSD String
　　　　Data coding scheme:　　7-bit default, no message class
　　　　USSD string:　　　　　"ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Icon Identifier:
　　　　Icon qualifier:　　　　icon is self-explanatory
　　　　Icon Identifier:　　　record 1 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	54	81	03	01	12	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9E	02
	00	01										

REGISTER 2.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
　　　　USSD-DataCodingScheme:
　　　　- 7-bit default, no message class
　　　　USSD string:
　　　　- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
      USSD-DataCodingScheme:
      - 7-bit default, no message class
      USSD string:
      - "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 2.1.1A

Logically:

Command details
      Command number: 1
      Command type: SEND USSD
      Command qualifier: "00"
Device identities
      Source device: ME
      Destination device: UICC
Result
      General Result: Command performed successfully
Text String
      Data coding scheme: 7-bit default, no message class
      String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

Expected Sequence 2.1B (SEND USSD, 7-bit data, successful, basic icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1B	[Command performed but requested icon could not be displayed]

TERMINAL RESPONSE: SEND USSD 2.1.1B

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"
Device identities
 Source device: ME
 Destination device: UICC
Result
 General Result: Command performed successfully, but requested icon could not be displayed
Text String
 Data coding scheme: 7-bit default, no message class
 String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	04	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

Expected Sequence 2.2 (SEND USSD, 7-bit data, successful, colour icon self explanatory)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display COLOUR-ICON or May give information to user concerning what is happening	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1A or TERMINAL RESPONSE: SEND USSD 2.1.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

PROACTIVE COMMAND: SEND USSD 2.2.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND USSD
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
        Alpha identifier:      "Color Icon"
USSD String
        Data coding scheme:    7-bit default, no message class
        USSD string:           "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
                               1234567890"
Icon Identifier:
        Icon qualifier:        icon is self-explanatory
        Icon Identifier:       record 2 in EF_{(IMG)}
```

Coding:

BER-TLV:	D0	54	81	03	01	12	00	82	02	81	83	85
	0A	43	6F	6C	6F	72	20	49	63	6F	6E	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9E	02
	00	02										

Expected Sequence 2.3A (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" and BASIC-ICON	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 2.3.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND USSD
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
        Alpha identifier:      "Basic Icon"
USSD String
        Data coding scheme:    7-bit default, no message class
        USSD string:           "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
                               1234567890"
```

Icon Identifier
    Icon qualifier: icon is non self-explanatory
    Icon Identifier: record 1 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	54	81	03	01	12	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9E	02
	01	01										

Expected Sequence 2.3B (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1B	[Command performed but requested icon could not be displayed]

Expected Sequence 2.4 (SEND USSD, 7-bit data, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.4.1	[BASIC-ICON, non self-explanatory]
4	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.4.1	[Command data not understood by ME]

PROACTIVE COMMAND: SEND USSD 2.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
Icon Identifier
    Icon qualifier: icon is non self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

BER-TLV:	D0	48	81	03	01	12	00	82	02	81	83	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9E	02
	01	01										

TERMINAL RESPONSE: SEND USSD 2.4.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND USSD
        Command qualifier:     "00"
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command data not understood by ME
```

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	32

27.22.4.12.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 - 2.4.

27.22.4.12.3 SEND USSD (UCS2 display in Cyrillic)

27.22.4.12.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- ETSI TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.12.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.3.4   Method of test

27.22.4.12.3.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.3.4.2   Procedure

Expected Sequence 3.1 (SEND USSD, 7-bit data, successful, UCS2 text in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 3.1.1	
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	ME → USS	REGISTER 3.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 3.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 3.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha Identifier
        Data coding scheme: UCS2 (16bit)
        Text: "ЗДРАВСТВУЙТЕ"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

Coding:

BER-TLV:	D0	5F	81	03	01	12	00	82	02	81	83	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	8A	39	F0	41	E1	90	58	34	1E	91
	49	E5	92	D9	74	3E	A1	51	E9	94	5A	B5
	5E	B1	59	6D	2B	2C	1E	93	CB	E6	33	3A
	AD	5E	B3	DB	EE	37	3C	2E	9F	D3	EB	F6
	3B	3E	AF	6F	C5	64	33	5A	CD	76	C3	E5
	60											

REGISTER 3.1

Logically (only USSD argument)

    ProcessUnstructuredSS-Request ARGUMENT
        USSD-DataCodingScheme:
        - 7-bit default, no message class
        USSD String:
        - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 3.1

Logically (only from USSD result):

> ProcessUnstructuredSS-Request RETURN RESULT
> > USSD-DataCodingScheme:
> > - 7-bit default, no message class
> > USSD String:
> > - "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 3.1.1

Logically:

> Command details
> > Command number: 1
> > Command type: SEND USSD
> > Command qualifier: "00"
> Device identities
> > Source device: ME
> > Destination device: UICC
> Result
> > General Result: Command performed successfully
> Text String
> > Data coding scheme: 7-bit default, no message class
> > String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.3.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.12.4   SEND USSD (support of Text Attribute)

27.22.4.12.4.1   SEND USSD (support of Text Attribute – Left Alignment)

27.22.4.12.4.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.4.1.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.1.3 Test purpose

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.1.4 Method of test

27.22.4.12.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND USSD, 7-bit data, successful, with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.1.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with left alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.1.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.1.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.1.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/13, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.1.1	

PROACTIVE COMMAND: SEND USSD 4.1.1

Logically:

 Command details
   Command number: 1
   Command type: SEND USSD
   Command qualifier: "00"
 Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.1.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

REGISTER 4.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- 7-bit default, no message class
USSD string:
- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	40	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 4.1

Logically (only from USSD result):

> ProcessUnstructuredSS-Request RETURN RESULT
> > USSD-DataCodingScheme:
> > - 7-bit default, no message class
> > USSD string:
> > - "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 4.1.1

Logically:

> Command details
> > Command number: 1
> > Command type: SEND USSD
> > Command qualifier: "00"
> Device identities
> > Source device: ME
> > Destination device: UICC
> Result
> > General Result: Command performed successfully
> Text String
> > Data coding scheme: 7-bit default, no message class
> > String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.12.4.2   SEND USSD (support of Text Attribute – Center Alignment)

27.22.4.12.4.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.4.2.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.2.3 Test purpose

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.2.4 Method of test

27.22.4.12.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.2.4.2 Procedure

Expected Sequence 4.2 (SEND USSD, 7-bit data, successful, with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.2.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with center alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.2.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.2.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.2.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/13, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.2.1	

PROACTIVE COMMAND: SEND USSD 4.2.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	01	B4		

PROACTIVE COMMAND: SEND USSD 4.2.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.2.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME

        Destination device: UICC
Result
        General Result: Command performed successfully
Text String
        Data coding scheme: 7-bit default, no message class
        String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.12.4.3   SEND USSD (support of Text Attribute – Right Alignment)

27.22.4.12.4.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.4.3.2   Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.3.3   Test purpose

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.3.4   Method of test

27.22.4.12.4.3.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND USSD, 7-bit data, successful, with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.3.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with right alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.3.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.3.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.3.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/13, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.3.1	

PROACTIVE COMMAND: SEND USSD 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 1"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
    Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	02	B4		

PROACTIVE COMMAND: SEND USSD 4.3.2

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 2"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
        1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: 7-bit default, no message class
        String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.3.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.12.4.4   SEND USSD (support of Text Attribute – Large Font Size)

27.22.4.12.4.4.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.4.4.2   Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.4.3   Test purpose

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.4.4   Method of test

27.22.4.12.4.4.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND USSD, 7-bit data, successful, with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with large font size]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with normal font size]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with large font size]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with normal font size]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	

PROACTIVE COMMAND: SEND USSD 4.4.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SEND USSD
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Network
    Alpha identifier:          "Text Attribute 1"
```

USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	04	B4		

PROACTIVE COMMAND: SEND USSD 4.4.2

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.4.3

Logically:

Command details
    Command number: 1
    Command type: SEND USSD

	Command qualifier:	"00"

Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 3"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.12.4.5 SEND USSD (support of Text Attribute – Small Font Size)

27.22.4.12.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.5.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.5.3   Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.5.4   Method of test

27.22.4.12.4.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.5.4.2   Procedure

Expected Sequence 4.5 (SEND USSD, 7-bit data, successful, with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with small font size]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with normal font size]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with small font size]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with normal font size]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	

PROACTIVE COMMAND: SEND USSD 4.5.1

Logically:

    Command details
            Command number: 1
            Command type: SEND USSD
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: Network
    Alpha identifier: "Text Attribute 1"

USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
    1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off,
    Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	08	B4		

PROACTIVE COMMAND: SEND USSD 4.5.2

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
    1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
    Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.5.3

Logically:

Command details
    Command number: 1
    Command type: SEND USSD

        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 3"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.5.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: 7-bit default, no message class
        String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.12.4.6 SEND USSD (support of Text Attribute – Bold On)

27.22.4.12.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.6.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.6.3   Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.6.4   Method of test

27.22.4.12.4.6.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.6.4.2   Procedure

Expected Sequence 4.6 (SEND USSD, 7-bit data, successful, with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with bold on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with bold off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with bold on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with bold off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	

PROACTIVE COMMAND: SEND USSD 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 1"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
    Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	10	B4		

PROACTIVE COMMAND: SEND USSD 4.6.2

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 2"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
    Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.6.3

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 3"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-
        1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: 7-bit default, no message class
        String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.12.4.7   SEND USSD (support of Text Attribute – Italic On)

27.22.4.12.4.7.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.4.7.2   Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.7.3   Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.7.4   Method of test

27.22.4.12.4.7.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND USSD, 7-bit data, successful, with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with italic on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with italic off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with italic on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with italic off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	

PROACTIVE COMMAND: SEND USSD 4.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
    Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	20	B4		

PROACTIVE COMMAND: SEND USSD 4.7.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute

Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.7.3

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.7.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.12.4.8   SEND USSD (support of Text Attribute – Underline On)

27.22.4.12.4.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.4.8.2   Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.8.3   Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.8.4   Method of test

27.22.4.12.4.8.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.8.4.2   Procedure

Expected Sequence 4.8 (SEND USSD, 7-bit data, successful, with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with underline on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with underline off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with underline on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with underline off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	

PROACTIVE COMMAND: SEND USSD 4.8.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Text Attribute 1"

USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	40	B4		

PROACTIVE COMMAND: SEND USSD 4.8.2

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.8.3

Logically:

Command details
    Command number: 1
    Command type: SEND USSD

	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 3"
USSD String		
	Data coding scheme:	7-bit default, no message class
	USSD string:	"ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.8.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND USSD
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text String		
	Data coding scheme:	7-bit default, no message class
	String:	"USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.12.4.9 SEND USSD (support of Text Attribute – Strikethrough On)

27.22.4.12.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.9.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.9.3   Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.9.4   Method of test

27.22.4.12.4.9.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.9.4.2 Procedure

Expected Sequence 4.9 (SEND USSD, 7-bit data, successful, with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with strikethrough on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with strikethrough off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with strikethrough on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with strikethrough off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	

PROACTIVE COMMAND: SEND USSD 4.9.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SEND USSD
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Network
    Alpha identifier:          "Text Attribute 1"
```

USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	80	B4		

PROACTIVE COMMAND: SEND USSD 4.9.2

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.9.3

Logically:

Command details
    Command number: 1
    Command type: SEND USSD

	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 3"
USSD String		
	Data coding scheme:	7-bit default, no message class
	USSD string:	"ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.9.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND USSD
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Text String		
	Data coding scheme:	7-bit default, no message class
	String:	"USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.12.4.10 SEND USSD (support of Text Attribute – Foreground and Background Colour)

27.22.4.12.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.10.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.10.3   Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.10.4   Method of test

27.22.4.12.4.10.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.10.4.2   Procedure

Expected Sequence 4.10 (SEND USSD, 7-bit data, successful, with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.10.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.10.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.10.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.10.1	

PROACTIVE COMMAND: SEND USSD 4.10.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SEND USSD
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Network
    Alpha identifier:          "Text Attribute 1"
    USSD String
        Data coding scheme:    7-bit default, no message class
```

USSD string:				"ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-								

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.10.2

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	41	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.10.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.12.5   SEND USSD (UCS2 display in Chinese)

27.22.4.12.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.12.5.2   Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- ETSI TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in: ISO/IEC 10646 [17].

27.22.4.12.5.3   Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.5.4   Method of test

27.22.4.12.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.5.4.2   Procedure

Expected Sequence 5.1 (SEND USSD, 7-bit data, successful, UCS2 text in Chinese)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 5.1.1	
4	ME → USER	Display "你好"	["Hello" in Chinese]
5	ME → USS	REGISTER 5.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 5.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha Identifier
        Data coding scheme: UCS2 (16bit)

        Text: "你好"

    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	4B	81	03	01	12	00	82	02	81	83	85
	05	80	4F	60	59	7D	8A	39	F0	41	E1	90
	58	34	1E	91	49	E5	92	D9	74	3E	A1	51
	E9	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93
	CB	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E
	9F	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A
	CD	76	C3	E5	60							

REGISTER 5.1

Logically (only USSD argument)

    ProcessUnstructuredSS-Request ARGUMENT
        USSD-DataCodingScheme:
            - 7-bit default, no message class
        USSD String:
            - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 5.1

Logically (only from USSD result):

    ProcessUnstructuredSS-Request RETURN RESULT
        USSD-DataCodingScheme:
            - 7-bit default, no message class
        USSD String:
            - "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	00	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Text String
        Data coding scheme: 7-bit default, no message class
        String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.12.6 SEND USSD (UCS2 display in Katakana)

27.22.4.12.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- ETSI TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in: ISO/IEC 10646 [17].

27.22.4.12.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.6.4 Method of test

27.22.4.12.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.6.4.2 Procedure

Expected Sequence 6.1 (SEND USSD, 7-bit data, successful, UCS2 text in Katakana)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 6.1.1	
4	ME → USER	Display "ﾙ"	["Test" in Katakana]
5	ME → USS	REGISTER 6.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 6.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 6.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND USSD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha Identifier
        Data coding scheme: UCS2 (16bit)
        Text: "ﾙ"
    USSD String
        Data coding scheme: 7-bit default, no message class
        USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	49	81	03	01	12	00	82	02	81	83	85
	03	80	30	EB	8A	39	F0	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

REGISTER 6.1

Logically (only USSD argument)

    ProcessUnstructuredSS-Request ARGUMENT
        USSD-DataCodingScheme:
        - 7-bit default, no message class
        USSD String:
        - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 6.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
    USSD-DataCodingScheme:
        - 7-bit default, no message class
    USSD String:
        - "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	00	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 6.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.13.5 SET UP CALL (UCS2 Display in *Cyrillic*)

27.22.4.13.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.5.4 Method of test

27.22.4.13.5.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.5.4.2 Procedure

Expected Sequence 5.1 (SET UP CALL with UCS2 – Cyrillic Characters, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 5.1.1	
4	ME → USER	ME displays "ЗДРАВСТВУЙТЕ" during user confirmation phase.	["ЗДРАВСТВУЙТЕ": 'Hello' in Russian]
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 5.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 5.1.1

Logically:

Command details

Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "ЗДРАВСТВУЙТЕ"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	2F	81	03	01	10	00	82	02	81	83	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	86	09	91	10	32	04	21	43	65	1C
	2C											

TERMINAL RESPONSE: SET UP CALL 5.1.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 5.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Cyrillic Characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 5.2.1	
4	ME → USER	ME displays "ЗДРАВСТВУЙТЕ1" during the user confirmation phase	['ЗДРАВСТВУЙТЕ1' : 'Hello1' in Russian]
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "ЗДРАВСТВУЙТЕ2" if the ME supports 2nd alpha identifier or otherwise " ЗДРАВСТВУЙТЕ1"	[second alpha identifier] ['ЗДРАВСТВУЙТЕ2' : 'Hello2' in Russian]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 5.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 5.2.1

Logically:

```
Command details
    Command number:                     1
    Command type:                       SET UP CALL
    Command qualifier:                  only if not currently busy on another call
Device identities
    Source device:                      UICC
    Destination device:                 Network
    Alpha identifier:                   " ЗДРАВСТВУЙТЕ1"
Address
    TON:                                International
    NPI:                                ISDN / telephone numbering plan
    Dialling number string              "012340123456p1p2"
    Alpha Identifier (call set up phase):  " ЗДРАВСТВУЙТЕ2"
```

Coding:

BER-TLV:	D0	4E	81	03	01	10	00	82	02	81	83	85
	1B	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	00	31	86	09	91	10	32	04	21	43
	65	1C	2C	85	1B	80	04	17	04	14	04	20
	04	10	04	12	04	21	04	22	04	12	04	23
	04	19	04	22	04	15	00	32				

TERMINAL RESPONSE: SET UP CALL 5.2.1

Logically:

```
Command details
    Command number:                     1
    Command type:                       SET UP CALL
    Command qualifier:                  only if not currently busy on another call
Device identities
    Source device:                      ME
    Destination device:                 UICC
Result
    General Result:                     Command performed successfully
```

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.2.5   Test requirement

The ME shall operate in the manner defined in expected sequences 5.1 to 5.2.

27.22.4.13.6   SET UP CALL (UCS2 Display in Chinese)

27.22.4.13.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.13.6.2   Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.6.3   Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.6.4   Method of test

27.22.4.13.6.4.1   Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.6.4.2   Procedure

Expected Sequence 6.1 (SET UP CALL with UCS2 – Chinese characters, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 6.1.1	
4	ME → USER	ME displays "不亡" during user confirmation phase.	['不亡' : 'Not Busy' in Chinese]
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 6.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network

        Alpha identifier: "不亡"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan

Dialling number string   "012340123456p1p2"

Coding:

BER-TLV:	D0	1B	81	03	01	10	00	82	02	81	83	85
	05	80	4E	0D	4E	A1	86	09	91	10	32	04
	21	43	65	1C	2C							

TERMINAL RESPONSE: SET UP CALL 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 6.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Chinese characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 6.2.1	
4	ME → USER	ME displays "确定" during the user confirmation phase	['确定' : 'Confirmation' in Chinese]
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "打电话" if the ME supports 2nd alpha identifier or otherwise "确定"	[second alpha identifier] ['打电话' : 'CALL' in Chinese]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 6.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 6.2.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network

	Alpha identifier:	"确定"
Address		
	TON:	International
	NPI:	ISDN / telephone numbering plan
	Dialling number string	"012340123456p1p2"
	Alpha Identifier (call set up phase):	"打电话"

Coding:

BER-TLV:	D0	24	81	03	01	10	00	82	02	81	83	85
	05	80	78	6E	5B	9A	86	09	91	10	32	04
	21	43	65	1C	2C	85	07	80	62	53	75	35
	8B	DD										

TERMINAL RESPONSE: SET UP CALL 6.2.1

Logically:

Command details		
	Command number:	1
	Command type:	SET UP CALL
	Command qualifier:	only if not currently busy on another call
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 to 6.2.

27.22.4.13.7 SET UP CALL (UCS2 Display in Katakana)

27.22.4.13.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.7.4   Method of test

27.22.4.13.7.4.1   Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.7.4.2   Procedure

Expected Sequence 7.1 (SET UP CALL with UCS2 – Katakana characters, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 7.1.1	
4	ME → USER	ME displays "ﾃﾙ" during user confirmation phase.	['ﾃﾙ' : 'Test' in Katakana]
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 7.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 7.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "ﾃﾙ"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	19	81	03	01	10	00	82	02	81	83	85
	03	80	30	EB	86	09	91	10	32	04	21	43
	65	1C	2C									

TERMINAL RESPONSE: SET UP CALL 7.1.1

Logically:

    Command details

	Command number:	1
	Command type:	SET UP CALL
	Command qualifier:	only if not currently busy on another call
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 7.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Katakana characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 7.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 7.2.1	
4	ME → USER	ME displays "ル1" during the user confirmation phase	['ル1' : 'Test1' in Katakana]
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "ル2" if the ME supports 2nd alpha identifier or otherwise "ル1"	[second alpha identifier] ['ル2' : 'Test2' in Katakana]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 7.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 7.2.1

Logically:

Command details		
	Command number:	1
	Command type:	SET UP CALL
	Command qualifier:	only if not currently busy on another call
Device identities		
	Source device:	UICC
	Destination device:	Network
	Alpha identifier:	"ル1"
Address		
	TON:	International
	NPI:	ISDN / telephone numbering plan
	Dialling number string	"012340123456p1p2"
	Alpha Identifier (call set up phase):	"ル2"

Coding:

BER-TLV:	D0	22	81	03	01	10	00	82	02	81	83	85
	05	80	30	EB	00	31	86	09	91	10	32	04
	21	43	65	1C	2C	85	05	80	30	EB	00	32

TERMINAL RESPONSE: SET UP CALL 7.2.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP CALL
        Command qualifier:     only if not currently busy on another call
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 7.1 to 7.2.

27.22.4.13 SET UP CALL

27.22.4.13.1 SET UP CALL (normal)

27.22.4.13.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

27.22.4.13.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.1.4 Method of test

27.22.4.13.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.1.4.2   Procedure

Expected Sequence 1.1 (SET UP CALL, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.1.1	
4	ME → USER	ME displays "Not busy" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 1.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Not busy"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string   "012340123456p1p2"

Coding:

BER-TLV:	D0	1E	81	03	01	10	00	82	02	81	83	85
	08	4E	6F	74	20	62	75	73	79	86	09	91
	10	32	04	21	43	65	1C	2C				

TERMINAL RESPONSE: SET UP CALL 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (SET UP CALL, call rejected by the user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.1.1	
4	ME → USER	ME displays "Not busy" during the user confirmation phase	
5	USER → ME	The user rejects the set up call	[user rejects the call]
6	ME → UICC	TERMINAL RESPONSE 1.2.1	[User did not accept call set-up request]
7	ME → USER	The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 1.2.1

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP CALL
>> Command qualifier: only if not currently busy on another call
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: User did not accept the proactive command

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	22

Expected Sequence 1.3 (SET UP CALL, redial)

The USS shall be configured such that call set up requests will be rejected with cause "User Busy".

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[only if not currently busy on another call with redial]
4	ME → USER	ME displays "Not busy with redial" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	ME attempts to set up a call to "+012340123456p1p2" at least twice	[redial mechanism]
7	ME → UICC	TERMINAL RESPONSE 1.3.1	[network currently unable to process command]
8	ME → USER	The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.3.1

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP CALL
>> Command qualifier: only if not currently busy on another call with redial
> Device identities
>> Source device: UICC

	Destination device:	Network
	Alpha identifier:	"Not busy with redial"
Address		
	TON:	International
	NPI:	ISDN / telephone numbering plan
	Dialling number string	"012340123456p1p2"

Coding:

BER-TLV:	D0	2A	81	03	01	10	01	82	02	81	83	85
	14	4E	6F	74	20	62	75	73	79	20	77	69
	74	68	20	72	65	64	69	61	6C	86	09	91
	10	32	04	21	43	65	1C	2C				

TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call with redial
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: network currently unable to process command
        Additional Information: User Busy

Coding:

BER-TLV:	81	03	01	10	01	82	02	82	81	83	02	21
	91											

Expected Sequence 1.4 (SET UP CALL, putting all other calls on hold, ME busy)

ME is busy on a call

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.4.1	[putting all other calls on hold]
4	ME → USER	ME displays "On hold" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	The active call is put on hold	
7	ME→USS	The ME attempts to set up a call to "+012340123456p1p2"	
8	USS → ME	The ME receives the CONNECT message from the USS.	
9	ME → UICC	TERMINAL RESPONSE 1.4.1	[Command performed successfully]
10	USER → ME	The user ends the call after 5 s. The ME retrieves the previous call	

PROACTIVE COMMAND: SET UP CALL 1.4.1

Logically:

    Command details
        Command number: 1

	Command type:	SET UP CALL
	Command qualifier:	putting all other calls on hold
Device identities		
	Source device:	UICC
	Destination device:	Network
	Alpha identifier:	"On hold"
Address		
	TON:	International
	NPI:	ISDN / telephone numbering plan
	Dialling number string	"012340123456p1p2"

Coding:

BER-TLV:	D0	1D	81	03	01	10	02	82	02	81	83	85
	07	4F	6E	20	68	6F	6C	64	86	09	91	10
	32	04	21	43	65	1C	2C					

TERMINAL RESPONSE: SET UP CALL 1.4.1

Logically:

Command details		
	Command number:	1
	Command type:	SET UP CALL
	Command qualifier:	putting all other calls on hold
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	10	02	82	02	82	81	83	01	00

Expected Sequence 1.5 (SET UP CALL, disconnecting all other calls, ME busy)

ME is busy on a call

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[disconnecting all other calls]
4	ME → USER	ME displays "Disconnect" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	The ME disconnects the active call	
7	ME→USS	The ME attempts to set up a call to "+012340123456p1p2"	
8	USS → ME	The ME receives the CONNECT message from the USS.	
9	ME → UICC	TERMINAL RESPONSE 1.5.1	[Command performed successfully]
10	USER → ME	The user ends the call after 5 s.	

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

Command details		
	Command number:	1

Command type:			SET UP CALL									
Command qualifier:			disconnecting all other calls									

Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Disconnect"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string   "012340123456p1p2"

Coding:

BER-TLV:	D0	20	81	03	01	10	04	82	02	81	83	85
	0A	44	69	73	63	6F	6E	6E	65	63	74	86
	09	91	10	32	04	21	43	65	1C	2C		

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: putting all other calls on hold
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	04	82	02	82	81	83	01	00

Expected Sequence 1.6 (SET UP CALL, only if not currently busy on another call, ME busy)

ME is busy on a call

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.1.1	[only if not currently busy on another call]
4	ME → UICC	TERMINAL RESPONSE 1.6.1	[ME currently unable to process command]

TERMINAL RESPONSE: SET UP CALL 1.6.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: ME currently unable to process command
    Additional Information: ME currently busy on call

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	02	20
	02											

Expected Sequence 1.7 (SET UP CALL, putting all other calls on hold, call hold is not allowed)

ME is busy on a call. The USS shall be configured to not allow Call Hold.

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.4.1	[putting all other calls on hold]
4	ME → USER	ME displays "On hold" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → SS	The ME attempts to set up a call to "+012340123456p1p2".	
7	ME → UICC	TERMINAL RESPONSE 1.7.1	[Network currently unable to process command]

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

```
Command details
      Command number:       1
      Command type:         SET UP CALL
      Command qualifier:    putting all other calls on hold
Device identities
      Source device:        ME
      Destination device:   UICC
Result
      General Result:       Network currently unable to process command
      Additional Information: No specific cause can be given
```

Coding:

BER-TLV:	81	03	01	10	02	82	02	82	81	83	02	21
	00											

Expected Sequence 1.8 (SET UP CALL, Capability configuration)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.8.1	[Capability configuration parameters: full rate support]
4	ME → USER	ME displays "Capability config" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2" using the capability configuration parameters supplied by UICC	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 1.8.1	[Command performed successfully]
9	USER → ME	The user ends the call The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.8.1

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP CALL
>> Command qualifier: if not busy on another call
> Device identities
>> Source device: UICC
>> Destination device: Network
>> Alpha identifier: "Capability config"
> Address
>> TON: International
>> NPI: ISDN / telephone numbering plan
>> Dialling number string "012340123456p1p2"
> Capability configuration parameters
>> Information transfer cap: full rate support only MS

Coding:

BER-TLV:	D0	2B	81	03	01	10	00	82	02	81	83	85
	11	43	61	70	61	62	69	6C	69	74	79	20
	63	6F	6E	66	69	67	86	09	91	10	32	04
	21	43	65	1C	2C	87	02	01	A0			

TERMINAL RESPONSE: SET UP CALL 1.8.1

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP CALL
>> Command qualifier: if not busy on another call
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 1.9 (SET UP CALL, max dialling number string, no alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.9.1	
2	ME → UICC	FETCH	
3	UICC → ME		[dialling number string, no alpha identifier]
		PROACTIVE COMMAND SET UP CALL 1.9.1A	[Option A shall apply for GERAN/UTRAN parameters]
		or	
		PROACTIVE COMMAND SET UP CALL 1.9.1B	[Option B shall apply for PCS1900 parameters]
4	USER → ME	The user confirms the set up call	[user confirmation]
5	ME→USS	Option A: The ME attempts to set up a call to "012345678901234567890123456789*#*#*#*#*#0123456789012345 67890123456789*#*#*#*#*#"	[Option A shall apply for GERAN/UTRAN parameters]
		or	
		Option B: The ME attempts to set up a call to "012345678901234567*#*#*#*#*#0123"	[Option B shall apply for PCS1900 parameters]
6	USS → ME	The ME receives the CONNECT message from the USS.	
7	ME → UICC	TERMINAL RESPONSE 1.9.1	[Command performed successfully]
8	USER → ME	The user ends the call The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.9.1A

Logically:

 Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call with redial
 Device identities
  Source device: UICC
  Destination device: Network
 Address
  TON: International
  NPI: ISDN / telephone numbering plan
 Dialling number string: "012345678901234567890123456789*#*#*#*#*#0123456789012345 6789*#*#*#*#*#"

Coding:

BER-TLV:	D0	34	81	03	01	10	01	82	02	81	83	86
	29	91	10	32	54	76	98	10	32	54	76	98
	10	32	54	76	98	BA	BA	BA	BA	BA	10	32
	54	76	98	10	32	54	76	98	10	32	54	76
	98	BA	BA	BA	BA	BA						

PROACTIVE COMMAND: SET UP CALL 1.9.1B

Logically:

 Command details
  Command number: 1
  Command type: SET UP CALL

	Command qualifier:	only if not currently busy on another call with redial
Device identities		
	Source device:	UICC
	Destination device:	Network
Address		
	TON:	International
	NPI:	ISDN / telephone numbering plan
Dialling number string:		"012345678901234567*#*#*#*#*#0123"

Coding:

BER-TLV:	D0	1C	81	03	01	10	01	82	02	81	83	86
	11	91	10	32	54	76	98	10	32	54	76	BA
	BA	BA	BA	BA	10	32						

TERMINAL RESPONSE: SET UP CALL 1.9.1

Logically:

Command details		
	Command number:	1
	Command type:	SET UP CALL
	Command qualifier:	only if not currently busy on another call with redial
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	10	01	82	02	82	81	83	01	00

Expected Sequence 1.10 (SET UP CALL, 256 octets length, long first alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.10.1	[alpha identifier]
4	ME → USER	ME displays "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, " during the user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+01"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 1.10.1	[Command performed successfully]
9	USER → ME	The user ends the call The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.10.1

Logically:

Command details		
	Command number:	1
	Command type:	SET UP CALL
	Command qualifier:	only if not currently busy on another call with redial

Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, "
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string: "01"

Coding:

BER-TLV:	D0	81	FD	81	03	01	10	01	82	02	81	83
	85	81	ED	54	68	72	65	65	20	74	79	70
	65	73	20	61	72	65	20	64	65	66	69	6E
	65	64	3A	20	2D	20	73	65	74	20	75	70
	20	61	20	63	61	6C	6C	2C	20	62	75	74
	20	6F	6E	6C	79	20	69	66	20	6E	6F	74
	20	63	75	72	72	65	6E	74	6C	79	20	62
	75	73	79	20	6F	6E	20	61	6E	6F	74	68
	65	72	20	63	61	6C	6C	3B	20	2D	20	73
	65	74	20	75	70	20	61	20	63	61	6C	6C
	2C	20	70	75	74	74	69	6E	67	20	61	6C
	6C	20	6F	74	68	65	72	20	63	61	6C	6C
	73	20	28	69	66	20	61	6E	79	29	20	6F
	6E	20	68	6F	6C	64	3B	20	2D	20	73	65
	74	20	75	70	20	61	20	63	61	6C	6C	2C
	20	64	69	73	63	6F	6E	6E	65	63	74	69
	6E	67	20	61	6C	6C	20	6F	74	68	65	72
	20	63	61	6C	6C	73	20	28	69	66	20	61
	6E	79	29	20	66	69	72	73	74	2E	20	46
	6F	72	20	65	61	63	68	20	6F	66	20	74
	68	65	73	65	20	74	79	70	65	73	2C	20
	86	02	91	10								

TERMINAL RESPONSE: SET UP CALL 1.10.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call with redial
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	01	82	02	82	81	83	01	00

Expected Sequence 1.11A (SET UP CALL, Called party subaddress, command performed successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.11.1	[set up a call with called party subaddress]
4	ME → USER	ME displays "Called party" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456p1p2" with the called party subaddress information	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 1.11.1A	[Command performed successfully]
9	USER → ME	The user ends the call The ME returns in idle mode.	

Expected Sequence 1.11B (SET UP CALL, Called party subaddress, ME not supporting the called party subaddress)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.11.1	[set up a call with called party subaddress]
4	ME → UICC	TERMINAL RESPONSE 1.11.1B	[beyond ME's capabilities]

PROACTIVE COMMAND: SET UP CALL 1.11.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: if not busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Called party"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string: "012340123456p1p2"
    Called party subaddress
        Type of subaddress: NSAP (X.213 / ISO 8348 AD2)
        Odd / even indicator: even number of address signals
        Subaddress information: AFI, 95, 95, 95, 95, 95

Coding:

BER-TLV:	D0	2B	81	03	01	10	00	82	02	81	83	85
	0C	43	61	6C	6C	65	64	20	70	61	72	74
	79	86	09	91	10	32	04	21	43	65	1C	2C
	88	07	80	50	95	95	95	95	95			

TERMINAL RESPONSE: SET UP CALL 1.11.1A

Logically:

```
    Command details
        Command number:         1
        Command type:           SET UP CALL
        Command qualifier:      if not busy on another call
    Device identities
        Source device:          ME
        Destination device:     UICC
    Result
        General Result:         Command performed successfully
```

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: SET UP CALL 1.11.1B

Logically:

```
    Command details
        Command number:         1
        Command type:           SET UP CALL
        Command qualifier:      if not busy on another call
    Device identities
        Source device:          ME
        Destination device:     UICC
    Result
        General Result:         Beyond ME's capabilities
```

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	30

Expected Sequence 1.12 (SET UP CALL, maximum duration for the redial mechanism)

The USS shall be configured such that call set up requests will be rejected with cause "User Busy".

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.12.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.12.1	[only if not currently busy on another call with redial]
4	ME → USER	ME displays "Duration" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	ME attempts to set up a call to "+012340123456p1p2" . It stops its attempts after 10 seconds.	[redial mechanism with maximum duration of 10 seconds]]
7	ME → UICC	TERMINAL RESPONSE 1.12.1	[network currently unable to process command]
8	ME → USER	The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.12.1

Logically:

```
    Command details
        Command number:         1
        Command type:           SET UP CALL
        Command qualifier:      only if not currently busy on another call with redial
    Device identities
```

ETSI

       Source device: UICC
       Destination device: Network
       Alpha identifier: "Duration"
  Address
       TON: International
       NPI: ISDN / telephone numbering plan
       Dialling number string: "012340123456p1p2"
  Duration
       Unit: Seconds
       Interval: 10

Coding:

BER-TLV:	D0	22	81	03	01	10	01	82	02	81	83	85
	08	44	75	72	61	74	69	6F	6E	86	09	91
	10	32	04	21	43	65	1C	2C	84	02	01	0A

TERMINAL RESPONSE: SET UP CALL 1.12.1

Logically:

  Command details
       Command number: 1
       Command type: SET UP CALL
       Command qualifier: only if not currently busy on another call with redial
  Device identities
       Source device: ME
       Destination device: UICC
  Result
       General Result: network currently unable to process command
       Additional Information: User Busy

Coding:

BER-TLV:	81	03	01	10	01	82	02	82	81	83	02	21
	91											

27.22.4.13.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.12.

27.22.4.13.2 SET UP CALL (second alpha identifier)

27.22.4.13.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.2.2 Conformance requirement

Same as clause 27.22.4.13.2.1.

27.22.4.13.2.3 Test purpose

To verify that the ME accepts a Proactive Command - Set Up Call, displays the alpha identifiers to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.2.4   Method of test

27.22.4.13.2.4.1   Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.

27.22.4.13.2.4.2   Procedure

Expected Sequence 2.1 (SET UP CALL, two alpha identifiers)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 2.1.1	
4	ME → USER	ME displays "CONFIRMATION" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION"	[second alpha identifier]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 2.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL"

Coding:

BER-TLV:	D0	28	81	03	01	10	00	82	02	81	83	85
	0C	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	86	09	91	10	32	04	21	43	65	1C	2C
	85	04	43	41	4C	4C						

TERMINAL RESPONSE: SET UP CALL 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.13.3 SET UP CALL (display of icons)

27.22.4.13.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.3.2 Conformance requirement

27.22.4.13.3.3 Test purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message or icon to the user ,attempts to set up a call to the address, returns the result in the TERMINAL response.

27.22.4.13.3.4 Method of test

27.22.4.13.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.

27.22.4.13.3.4.2   Procedure

Expected Sequence 3.1A (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.1.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.1.1" and the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.1.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Set up call Icon 3.1.1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string "012340123456p1p2"
    Icon identifier
        Icon qualifier: icon is not self-explanatory
        Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	31	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	01	01										

TERMINAL RESPONSE: SET UP CALL 3.1.1A

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME

	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 3.1B (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.1.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.1.1" without the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.1.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.1.1B

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

Expected Sequence 3.2A (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.2.1	Including icon identifier, icon shall be displayed instead of the first alpha identifier
4	ME → USER	ME displays the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.2.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.2.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Set up call Icon 3.2.1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string "012340123456p1p2"
    Icon identifier
        Icon qualifier: icon is self-explanatory
        Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	32	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	00	01										

TERMINAL RESPONSE: SET UP CALL 3.2.1A

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 3.2B (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.2.1	Including icon identifier, icon shall be displayed instead of the first alpha identifier
4	ME → USER	ME display "Set up call Icon 3.2.1" without the icon	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.2.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.2.1B

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

Expected Sequence 3.3A (SET UP CALL, display of colour icon during confirmation phase, not self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.3.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.3.1" and the colour icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.3.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.3.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call
Device identities
  Source device: UICC
  Destination device: Network
  Alpha identifier: "Set up call Icon 3.3.1"
Address
  TON: International
  NPI: ISDN / telephone numbering plan
  Dialling number string "012340123456p1p2"
Icon identifier
  Icon qualifier: icon is not self-explanatory
  Icon identifier: <record 2 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	33	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	01	02										

TERMINAL RESPONSE: SET UP CALL 3.3.1A

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 3.3B (SET UP CALL, display of colour icon during confirmation phase, not self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.3.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME only display alpha string: " Set up call Icon 3.3.1"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.3.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.3.1B

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

Expected Sequence 3.4A (SET UP CALL, display of self explanatory basic icon during set up call, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.4.1	Including a second alpha identifier and two icons
4	ME → USER	ME displays the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays the basic icon without the text during the set up call.	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.4.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.4.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Set up call Icon 3.4.1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string "012340123456p1p2"
    Icon identifier
        Icon qualifier: icon is self-explanatory
        Icon identifier: <record 1 in EF IMG>
    Alpha identifier: "Set up call Icon 3.4.2"
    Icon identifier
        Icon qualifier: icon is self-explanatory
        Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	4C	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	34	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	00	01	85	16	53	65	74	20	75	70	20	63
	61	6C	6C	20	49	63	6F	6E	20	33	2E	34
	2E	32	9E	02	00	01						

TERMINAL RESPONSE: SET UP CALL 3.4.1A

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 3.4B (SET UP CALL, display of self explanatory basic icon during set up call, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.4.1	Including a second alpha identifier and two icons
4	ME → USER	ME displays "Set up call Icon 3.4.1" without the icon	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "Set up call Icon 3.4.2" without the icon during the set up call.	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 3.4.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.4.1B

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

27.22.4.13.3.5   Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.4B.

27.22.4.13.4   SET UP CALL (support of Text Attribute)

27.22.4.13.4.1   SET UP CALL (support of Text Attribute – Left Alignment)

27.22.4.13.4.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.13.4.1.2   Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the left alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.1.4 Method of test

27.22.4.13.4.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.1.4.2   Procedure

Expected Sequence 4.1 (SET UP CALL, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.1.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with left alignment]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with left alignment]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.1.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.1.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[User confirmation shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[Second alpha identifier shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.1.1

Logically:

    Command details
          Command number: 1
          Command type: SET UP CALL
          Command qualifier: only if not currently busy on another call
    Device identities
          Source device: UICC
          Destination device: Network
          Alpha identifier: "CONFIRMATION 1"
    Address
          TON: International

               NPI: ISDN / telephone numbering plan

               Dialling number string   "012340123456p1p2"

               Alpha Identifier (call set up phase):   "CALL 1"

Text Attribute (user confirmation phase)
                          Formatting position: 0
                          Formatting length: 14
                          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                          Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)
                          Formatting position: 0
                          Formatting length: 6
                          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                          Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.1.2

Logically:

Command details
          Command number: 1
          Command type: SET UP CALL
          Command qualifier: only if not currently busy on another call
Device identities
          Source device: UICC
          Destination device: Network
          Alpha identifier: "CONFIRMATION 2"
Address
          TON: International
          NPI: ISDN / telephone numbering plan
          Dialling number string   "012340123456p1p2"
                    Alpha Identifier (call set up phase):"CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.1.1

Logically:

Command details
          Command number: 1
          Command type: SET UP CALL
          Command qualifier: only if not currently busy on another call
Device identities
          Source device: ME
          Destination device: UICC
Result
          General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.13.4.2 SET UP CALL (support of Text Attribute – Center Alignment)

27.22.4.13.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.2.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the center alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.2.4 Method of test

27.22.4.13.4.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.2.4.2   Procedure

Expected Sequence 4.2 (SET UP CALL, Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.2.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with center alignment]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with center alignment]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.2.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.2.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[User confirmation shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[Second alpha identifier shall be formatted without centert alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.2.1

Logically:

```
    Command details
        Command number:              1
        Command type:                SET UP CALL
        Command qualifier:           only if not currently busy on another call
    Device identities
        Source device:               UICC
        Destination device:          Network
        Alpha identifier:            "CONFIRMATION 1"
    Address
        TON:                         International
```

NPI:	ISDN / telephone numbering plan	
Dialling number string	"012340123456p1p2"	
Alpha Identifier (call set up phase):	"CALL 1"	

Text Attribute (user confirmation phase)

    Formatting position: 0

    Formatting length: 14

    Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

    Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

    Formatting position: 0

    Formatting length: 6

    Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	01	B4	D0	04	00	06	01	B4		

PROACTIVE COMMAND: SET UP CALL 4.2.2

Logically:

Command details

    Command number: 1

    Command type: SET UP CALL

    Command qualifier: only if not currently busy on another call

Device identities

    Source device: UICC

    Destination device: Network

    Alpha identifier: "CONFIRMATION 2"

Address

    TON: International

    NPI: ISDN / telephone numbering plan

    Dialling number string "012340123456p1p2"

        Alpha Identifier (call set up phase):"CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.2.1

Logically:

Command details

    Command number: 1

    Command type: SET UP CALL

    Command qualifier: only if not currently busy on another call

Device identities

    Source device: ME

    Destination device: UICC

Result

    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.13.4.3 SET UP CALL (support of Text Attribute – Right Alignment)

27.22.4.13.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.3.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the right alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.3.4 Method of test

27.22.4.13.4.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.3.4.2   Procedure

Expected Sequence 4.3 (SET UP CALL, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.3.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with right alignment]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with right alignment]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.3.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.3.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.3.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[User confirmation shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[Second alpha identifier shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.3.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.3.1

Logically:

```
    Command details
        Command number:            1
        Command type:              SET UP CALL
        Command qualifier:         only if not currently busy on another call
    Device identities
        Source device:             UICC
        Destination device:        Network
        Alpha identifier:          "CONFIRMATION 1"
    Address
        TON:                       International
```

	NPI:	ISDN / telephone numbering plan
	Dialling number string	"012340123456p1p2"
	Alpha Identifier (call set up phase):	"CALL 1"

Text Attribute (user confirmation phase)

        Formatting position: 0

        Formatting length: 14

        Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

        Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

        Formatting position: 0

        Formatting length: 6

        Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	02	B4	D0	04	00	06	02	B4		

PROACTIVE COMMAND: SET UP CALL 4.3.2

Logically:

  Command details

      Command number: 1

      Command type: SET UP CALL

      Command qualifier: only if not currently busy on another call

  Device identities

      Source device: UICC

      Destination device: Network

      Alpha identifier: "CONFIRMATION 2"

  Address

      TON: International

      NPI: ISDN / telephone numbering plan

      Dialling number string   "012340123456p1p2"

           Alpha Identifier (call set up phase):"CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.3.1

Logically:

  Command details

      Command number: 1

      Command type: SET UP CALL

      Command qualifier: only if not currently busy on another call

  Device identities

      Source device: ME

      Destination device: UICC

  Result

      General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.13.4.4 SET UP CALL (support of Text Attribute – Large Font Size)

27.22.4.13.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.4.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the large font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.4.4 Method of test

27.22.4.13.4.4.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.4.4.2   Procedure

Expected Sequence 4.4 (SET UP CALL, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with large font size]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with large font size]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[second alpha identifier is displayed with normal font size]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with large font size]
24	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with large font size]
25	USS → ME	The ME receives the CONNECT message from the USS.	
26	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
33	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 3" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 3"	[second alpha identifier is displayed with normal font size]
34	USS → ME	The ME receives the CONNECT message from the USS.	
35	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.4.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 1"
    Text Attribute (user confirmation phase)
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
            Formatting position: 0
            Formatting length: 6
            Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	04	B4	D0	04	00	06	04	B4		

PROACTIVE COMMAND: SET UP CALL 4.4.2

Logically:

```
    Command details
        Command number:                1
        Command type:                  SET UP CALL
        Command qualifier:             only if not currently busy on another call
    Device identities
        Source device:                 UICC
        Destination device:            Network
        Alpha identifier:              "CONFIRMATION 2"
    Address
        TON:                           International
        NPI:                           ISDN / telephone numbering plan
        Dialling number string         "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 2"
    Text Attribute (user confirmation phase)
                Formatting position: 0
                Formatting length:   14
                Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour:    Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
                Formatting position: 0
                Formatting length:   6
                Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour:    Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.4.3

Logically:

```
    Command details
        Command number:                1
        Command type:                  SET UP CALL
        Command qualifier:             only if not currently busy on another call
    Device identities
        Source device:                 UICC
        Destination device:            Network
        Alpha identifier:              "CONFIRMATION 3"
    Address
        TON:                           International
        NPI:                           ISDN / telephone numbering plan
        Dialling number string         "012340123456p1p2"
                Alpha Identifier (call set up phase):"CALL 3"
```

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.4.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP CALL
        Command qualifier:     only if not currently busy on another call
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.13.4.5 SET UP CALL (support of Text Attribute – Small Font Size)

27.22.4.13.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the small font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.4.5 Method of test

27.22.4.13.4.4.5.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.4.5.2 Procedure

Expected Sequence 4.5 (SET UP CALL, Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with small font size]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with small font size]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[second alpha identifier is displayed with normal font size]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with small font size]
24	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with small font size]
25	USS → ME	The ME receives the CONNECT message from the USS.	
26	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
33	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 3" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 3"	[second alpha identifier is displayed with normal font size]
34	USS → ME	The ME receives the CONNECT message from the USS.	
35	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.5.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 1"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string   "012340123456p1p2"
    Alpha Identifier (call set up phase):   "CALL 1"
Text Attribute (user confirmation phase)
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background
Text Attribute (call set up phase)
        Formatting position: 0
        Formatting length: 6
        Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	08	B4	D0	04	00	06	08	B4		

PROACTIVE COMMAND: SET UP CALL 4.5.2

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 2"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 2"
    Text Attribute (user confirmation phase)
                Formatting position: 0
                Formatting length: 14
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
                Formatting position: 0
                Formatting length: 6
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.5.3

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 3"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.5.1

Logically:

Command details
      Command number: 1
      Command type: SET UP CALL
      Command qualifier: only if not currently busy on another call
Device identities
      Source device: ME
      Destination device: UICC
Result
      General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.13.4.6 SET UP CALL (support of Text Attribute – Bold On)

27.22.4.13.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.6.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the bold text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.6.4 Method of test

27.22.4.13.4.6.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.6.4.2   Procedure

Expected Sequence 4.6 (SET UP CALL, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold on]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with bold on]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold off]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[second alpha identifier is displayed with bold off]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold on]
24	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with bold on]
25	USS → ME	The ME receives the CONNECT message from the USS.	
26	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold off]
33	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 3" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 3"	[second alpha identifier is displayed with bold off]
34	USS → ME	The ME receives the CONNECT message from the USS.	
35	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 1"
    Text Attribute (user confirmation phase)
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
            Formatting position: 0
            Formatting length: 6
            Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	10	B4	D0	04	00	06	10	B4		

PROACTIVE COMMAND: SET UP CALL 4.6.2

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 2"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string   "012340123456p1p2"
    Alpha Identifier (call set up phase):   "CALL 2"
Text Attribute (user confirmation phase)
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background
Text Attribute (call set up phase)
        Formatting position: 0
        Formatting length: 6
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.6.3

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 3"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string   "012340123456p1p2"
    Alpha Identifier (call set up phase):   "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.13.4.7 SET UP CALL (support of Text Attribute – Italic On)

27.22.4.13.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the italic text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.7.4 Method of test

27.22.4.13.4.7.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.7.4.2 Procedure

Expected Sequence 4.7 (SET UP CALL, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic on]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with italic on]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic off]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[second alpha identifier is displayed with italic off]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic on]
24	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with italic on]
25	USS → ME	The ME receives the CONNECT message from the USS.	
26	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic off]
33	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 3" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 3"	[second alpha identifier is displayed with italic off]
34	USS → ME	The ME receives the CONNECT message from the USS.	
35	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.7.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 1"
    Text Attribute (user confirmation phase)
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
        Formatting position: 0
        Formatting length: 6
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	20	B4	D0	04	00	06	20	B4		

PROACTIVE COMMAND: SET UP CALL 4.7.2

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 2"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 2"
    Text Attribute (user confirmation phase)
                Formatting position: 0
                Formatting length: 14
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
                Formatting position: 0
                Formatting length: 6
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.7.3

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 3"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.7.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.13.4.8 SET UP CALL (support of Text Attribute – Underline On)

27.22.4.13.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.8.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the underline text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.8.4 Method of test

27.22.4.13.4.8.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.8.4.2   Procedure

Expected Sequence 4.8 (SET UP CALL, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline on]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with underline on]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline off]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[second alpha identifier is displayed with underline off]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline on]
24	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with underline on]
25	USS → ME	The ME receives the CONNECT message from the USS.	
26	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline off]
33	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 3" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 3"	[second alpha identifier is displayed with Undeline off]
34	USS → ME	The ME receives the CONNECT message from the USS.	
35	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.8.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 1"
    Text Attribute (user confirmation phase)
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
            Formatting position: 0
            Formatting length: 6
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	40	B4	D0	04	00	06	40	B4		

PROACTIVE COMMAND: SET UP CALL 4.8.2

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 2"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 2"
    Text Attribute (user confirmation phase)
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
            Formatting position: 0
            Formatting length: 6
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.8.3

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 3"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.8.1

Logically:

```
Command details
      Command number:        1
      Command type:          SET UP CALL
      Command qualifier:     only if not currently busy on another call
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.8.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.13.4.9   SET UP CALL (support of Text Attribute – Strikethrough On)

27.22.4.13.4.9.1   Definition and applicability

See clause 3.2.2.

27.22.4.13.4.9.2   Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.9.3   Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the strikethrough text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.9.4   Method of test

27.22.4.13.4.9.4.1   Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.9.4.2   Procedure

Expected Sequence 4.9 (SET UP CALL, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough on]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with strikethrough on]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough off]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[second alpha identifier is displayed with strikethrough off]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough on]
24	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with strikethrough on]
25	USS → ME	The ME receives the CONNECT message from the USS.	
26	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough off]
33	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 3" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 3"	[second alpha identifier is displayed with strikethrough off]
34	USS → ME	The ME receives the CONNECT message from the USS.	
35	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.9.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"
        Alpha Identifier (call set up phase):   "CALL 1"
    Text Attribute (user confirmation phase)
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
            Colour: Dark Green Foreground, Bright Yellow Background
    Text Attribute (call set up phase)
            Formatting position: 0
            Formatting length: 6
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	80	B4	D0	04	00	06	80	B4		

PROACTIVE COMMAND: SET UP CALL 4.9.2

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 2"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string   "012340123456p1p2"
    Alpha Identifier (call set up phase):   "CALL 2"
Text Attribute (user confirmation phase)
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background
Text Attribute (call set up phase)
        Formatting position: 0
        Formatting length: 6
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.9.3

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 3"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string   "012340123456p1p2"
    Alpha Identifier (call set up phase):   "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.9.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP CALL
        Command qualifier:     only if not currently busy on another call
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.13.4.10   SET UP CALL (support of Text Attribute – Foreground and Background Colour)

27.22.4.13.4.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.13.4.10.2   Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.10.3   Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the foreground and background colour text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.10.4   Method of test

27.22.4.13.4.10.4.1   Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.10.4.2   Procedure

Expected Sequence 4.10 (SET UP CALL, Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.10.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with foreground and background colour according to Text Attribute configuration]
6	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 1" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 1"	[second alpha identifier is displayed with foreground and background colour according to Text Attribute configuration]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 4.10.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.10.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.10.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with ME"s default foreground and background colour]
15	ME → USS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "CALL 2" if the ME supports 2nd alpha identifier or otherwise "CONFIRMATION 2"	[second alpha identifier is displayed with ME"s default foreground and background colour]
16	USS → ME	The ME receives the CONNECT message from the USS.	
17	ME → UICC	TERMINAL RESPONSE 4.10.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.10.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "CONFIRMATION 1"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string   "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
       Formatting position: 0
       Formatting length: 14
       Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
       Colour: Dark Green Foreground, Bright Yellow Background
Text Attribute (call set up phase)
       Formatting position: 0
       Formatting length: 6
       Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
       Colour: Bright Yellow Foreground, Dark Green Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0E	00	B4	D0	04	00	06	00	4B		

PROACTIVE COMMAND: SET UP CALL 4.10.2

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 2"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string "012340123456p1p2"
    Alpha Identifier (call set up phase): "CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.10.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

27.22.4.13.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.14 POLLING OFF

27.22.4.14.1 Definition and applicability

See clause 3.2.2.

27.22.4.14.2 Conformance requirement

The ME shall support the POLLING OFF as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.14, clause 6.6.14, clause 6.8, clause 6.11, clause 8.6 and clause 8.7.

27.22.4.14.3 Test purpose

To verify that the ME cancels the effect of any previous POLL INTERVAL commands and does not effect UICC presence detection.

27.22.4.14.4 Method of test

27.22.4.14.4.1 Initial conditions

The ME is connected to the USIM Simulator.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.14.4.2 Procedure

Expected Sequence 1.1 (POLLING OFF)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POLLING INTERVAL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	Interval = 1 min
4	ME → UICC	TERMINAL RESPONSE: POLL INTERVAL 1.1.1 A or TERMINAL RESPONSE: POLL INTERVAL 1.1.1B	[command performed successfully, duration depends on the ME"s capabilities]
5	UICC → ME	PROACTIVE COMMAND PENDING: POLLING OFF 1.1.2	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: POLLING OFF 1.1.2	
8	ME → UICC	TERMINAL RESPONSE: POLLING OFF 1.1.2	[command performed successfully]
9	USER → UICC	Call to be set up	
10	ME → UICC	Periods of inactivity on the UICC-ME interfaceshall not exceed 30 seconds	
11	USER → UICC	Call to be terminated 3 minutes after call setup	

PROACTIVE COMMAND: POLL INTERVAL 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: POLL INTERVAL
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Duration
        Time unit: Minutes
        Time interval: 1

Coding:

BER-TLV:	D0	0D	81	03	01	03	00	82	02	81	82	84
	02	00	01									

TERMINAL RESPONSE: POLL INTERVAL 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: POLL INTERVAL
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Duration
    Time unit: Minutes
    Time interval: 1

Coding:

BER-TLV:	81	03	01	03	00	82	02	82	81	83	01	00
	84	02	00	01								

TERMINAL RESPONSE: POLL INTERVAL 1.1.1B

Logically:

Command details
    Command number: 1
    Command type: POLL INTERVAL
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Duration
    Time unit: Seconds
    Time interval: 60

Coding:

BER-TLV:	81	03	01	03	00	82	02	82	81	83	01	00
	84	02	01	3C								

NOTE: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in 3GPP TS 31.111 [15], subclause 6.4.6.

PROACTIVE COMMAND: POLLING OFF 1.1.2

Logically:

Command details
    Command number: 1
    Command type: POLLING OFF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	04	00	82	02	81	82

TERMINAL RESPONSE: POLLING OFF 1.1.2

Logically:

Command details
    Command number: 1
    Command type: POLLING OFF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result

       General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	04	00	82	02	82	81	83	01	00

27.22.4.14.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.4.15   PROVIDE LOCAL INFORMATION

27.22.4.15.1   Definition and applicability

See clause 3.2.2.

27.22.4.15.2   Conformance requirement

The ME shall support the PROVIDE LOCAL INFORMATION facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.15.

27.22.4.15.3   Test purpose

To verify that the ME returns the following requested local information within a TERMINAL RESPONSE:

- location information:

    - Mobile Country Code (MCC);

    - Mobile Network Code (MNC);

    - Location Area Code (LAC); and

    - cell ID of the current serving cell;

- the IMEI of the ME;

- the Network Measurement Results and the BCCH channel list;

- the current date, time and time zone;

- the current ME language setting;

- the Timing Advance;

- the Access Technology;

- the IMEISV

- the Search Mode change

- the Battery charge State

- the UTRAN measurements.

if the local information is stored in the ME; otherwise, sends the correct error code to the UICC in the TERMINAL RESPONSE.

27.22.4.15.4 Method of tests

27.22.4.15.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME is connected to the USS and has performed the location update procedure.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001;

- Timing advance = 0;

- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001;

- Timing advance = 0;

- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

The elementary files are coded as the USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.15.4.2 Procedure

Expected Sequence 1.1 (PROVIDE LOCAL INFORMATION, Local Info (MCC, MNC, LAC & Cell ID))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1A or TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1B	[Command performed successfully, MCC MNC LAC and Cell Identity as USS, option A shall apply for 3GPP parameters] [Command performed successfully, MCC MNC LAC and Cell Identity as USS, option B shall apply for PCS1900 parameters]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Logically:

Command details

```
    Command number:       1
    Command type:         PROVIDE LOCAL INFORMATION
    Qualifier:            "00" Location information (MCC MNC LAC and Cell Identity)
Device identities
    Source device:        UICC
    Destination device:   ME
```

Coding:

BER-TLV:	D0	09	81	03	01	26	00	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1A

Logically:

```
Command details
    Command number:       1
    Command type:         PROVIDE LOCAL INFORMATION
    Qualifier:            "00" Location information (MCC MNC LAC and Cell Identity)
Device identities
    Source device:        ME
    Destination device:   UICC
Result
    General Result:       Command performed successfully
    Location Information
    MCC & MNC:            MCC = 001, MNC = 01
    Location Area Code:   0001
    Cell Identity Value:  0001
```

Coding:

BER-TLV:	81	03	01	26	00	82	02	82	81	83	01	00
	93	07	00	F1	10	00	01	00	01			

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1B

Logically:

```
Command details
    Command number:       1
    Command type:         PROVIDE LOCAL INFORMATION
    Qualifier:            "00" Location information (MCC MNC LAC and Cell Identity)
Device identities
    Source device:        ME
    Destination device:   UICC
Result
    General Result:       Command performed successfully
    Location Information
    MCC & MNC:            MCC = 001, MNC = 011
    Location Area Code:   0001
    Cell Identity Value:  0001
```

Coding:

BER-TLV:	81	03	01	26	00	82	02	82	81	83	01	00
	93	07	00	11	10	00	01	00	01			

Expected Sequence 1.2 (PROVIDE LOCAL INFORMATION, IMEI of the ME)

Step	Direction	MESSAGE / Action	Comments

1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1	[Command performed successfully, IMEI as USS]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: PROVIDE LOCAL INFORMATION
        Qualifier: "01" IMEI of the ME
    Device identities
        Source device: UICC
        Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	01	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: PROVIDE LOCAL INFORMATION
        Qualifier: "01" IMEI of the ME
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    IMEI
        IMEI of the ME: The IMEI of the ME

The result coding depends on the Mobile IMEI value as declared in table A.2/23.

Coding:

BER-TLV:	81	03	01	26	01	82	02	82	81	83	01	00
	94	08	XX	XX	XX	XX	XX	XX	XX	XX		

As an example, if the IMEI of the mobile is "1234567889012345" then XX XX XX XX XX XX XX XX = 1A 32 54 76 98 10 32 54. For further details see also 3GPP TS 24.008 [10], clause 10.5.1..

Expected Sequence 1.3 (PROVIDE LOCAL INFORMATION, Network Measurement Results (NMR))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1	

| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1 | [Command performed successfully, NMR as USS] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1

Logically:

```
Command details
    Command number:        1
    Command type:          PROVIDE LOCAL INFORMATION
    Qualifier:             "02" Network Measurement Results
Device identities
    Source device:         UICC
    Destination device:    ME
```

Coding:

| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1

The actual values of the measurements are not tested.

Logically:

```
Command details
    Command number:              1
    Command type:                PROVIDE LOCAL INFORMATION
    Qualifier:                   "02" Network Measurement Results
Device identities
    Source device:               ME
    Destination device:          UICC
Result
    General Result:              Command performed successfully
    Network Measurement Results  RXLEV-FULL-SERVING-CELL=52, BA not used, DTX not used, as
                                 an example in the BER-TLV)
    BCCH channel list            561, 565, 568, 569, 573, 575, 577, 581, 582 and 585
```

Coding:

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	10	34	34	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	9D	0D	8C	63	58	E2
	39	8F	63	F9	06	45	91	A4	90			

Expected Sequence 1.4 (PROVIDE LOCAL INFORMATION, Date, Time, Time Zone)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.4.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.4.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.4.1

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "03" Date Time and Time Zone
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	03	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.4.1

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "03" Date Time and Time Zone
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Date-Time and Time Zone   date an time set by the user: 7th May 2002, 14h 08mn 17s, no time zone
                            information, as an example in TLV

Coding:

BER-TLV:	81	03	01	26	03	82	02	82	81	83	01	00
	A6	07	20	50	70	41	80	71	FF			

Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.5.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.5.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.5.1

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "04" Language setting
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	04	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.5.1

Logically:

```
Command details
        Command number:        1
        Command type:          PROVIDE LOCAL INFORMATION
        Qualifier:             "04" Language setting
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
        Language               English ("en") as an example for TLV
```

Coding:

BER-TLV:	81	03	01	26	04	82	02	82	81	83	01	00
	AD	02	65	6E								

Expected Sequence 1.6 (PROVIDE LOCAL INFORMATION, Timing advance)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.6.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

```
Command details
        Command number:        1
        Command type:          PROVIDE LOCAL INFORMATION
        Qualifier:             "05" Timing Advance
Device identities
        Source device:         UICC
        Destination device:    ME
```

Coding:

BER-TLV:	D0	09	81	03	01	26	05	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

```
Command details
        Command number:        1
        Command type:          PROVIDE LOCAL INFORMATION
        Qualifier:             "05" Timing Advance
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Timing Advance                 2 bytes
        ME status:             "00" ME is in idle state Idle State
```

    Timing Advance: 0

Coding:

BER-TLV:	81	03	01	26	05	82	02	82	81	83	01	00
	AE	02	00	00								

Expected Sequence 1.7 (PROVIDE LOCAL INFORMATION, Access Technology

TBD

Expected Sequence 1.8 (Void)

Expected Sequence 1.9 (PROVIDE LOCAL INFORMATION, IMEISV of the terminal)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1	[Command performed successfully, IMEISV]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

    Command details
        Command number: 1
        Command type: PROVIDE LOCAL INFORMATION
        Qualifier: "08" IMEISV of the ME
    Device identities
        Source device: UICC
        Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	08	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

    Command details
        Command number: 1
        Command type: PROVIDE LOCAL INFORMATION
        Qualifier: "08" IMEISV of the ME
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    IMEISV
        IMEISV of the ME: The IMEISV of the ME

The result coding depends on the ME IMEISV value as declared in table A.2/24.

Coding:

BER-TLV:	81	03	01	26	08	82	02	82	81	83	01	00
	E2	09	XX	XX	XX	XX	XX	XX	XX	XX	XX	

As an example, if the IMEISV of the ME is "1234567890123456" then XX XX XX XX XX XX XX XX XX= 13 32 54 76 98 10 32 54 6F. For further details see also ETSI TS 124.008 [7].

Expected Sequence 1.10 (PROVIDE LOCAL INFORMATION, Search Mode Change)

TBD

Expected Sequence 1.11 (PROVIDE LOCAL INFORMATION, charge state of the battery)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.11.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.11.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.11.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.11.1

Logically:

    Command details
        Command number: 1
        Command type: PROVIDE LOCAL INFORMATION
        Qualifier: "0A" Charge State of the Battery
    Device identities
        Source device: UICC
        Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	0A	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.11.1

Logically:

    Command details
        Command number: 1
        Command type: PROVIDE LOCAL INFORMATION
        Qualifier: "0A" Charge State of the Battery
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Battery State: XX where $0 \leq XX < 5$

Coding:

BER-TLV:	81	03	01	26	0A	82	02	82	81	83	01	00
	E3	01	XX									

Expected Sequence 1.12 (PROVIDE LOCAL INFORMATION, UTRAN Measurements)

TBD

27.22.4.15.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.12.

27.22.4.16 SET UP EVENT LIST

27.22.4.16.1 SET UP EVENT LIST (normal)

27.22.4.16.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.16.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Event List facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.16 and clause 6.6.16.

Additionally the ME shall support the Event Download: Call Connect and the Event Download: Call Disconnected mechanism as defined in:

- 3GPP TS 31.111 [15] clause 11.2, clause 11.2.1, clause 11.2.2, clause 11.3, clause 11.3.1 and clause 11.3.2.

27.22.4.16.1.3 Test purpose

To verify that the ME accepts a list of events that it shall monitor the current list of events supplied by the UICC, is able to have this current list of events replaced and is able to have the list of events removed.

To verify that when the ME has successfully accepted or removed the list of events, it shall send TERMINAL RESPONSE (OK) to the UICC and when the ME is not able to successfully accept or remove the list of events, it shall send TERMINAL RESPONSE (Command beyond ME's capabilities).

27.22.4.16.1.4 Method of test

27.22.4.16.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.16.1.4.2 Procedure

Expected Sequence 1.1 (SET UP EVENT LIST, Set Up Call Connect Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USS → ME	SETUP 1.1.1	[Incoming call alert]
7	USER → ME	User shall accept the incoming call	
8	ME → USS	CONNECT 1.1.1	
9	ME → UICC	ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1	[Call Connected Event]
10	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.1.1

Logically:

    Transaction identifier
        Ti value: 0 (bit 5-7)
    Address
        TON: "Unknown"
        NPI: "ISDN/ telephone numbering plan"
        Dialling number string: "9876"

CONNECT 1.1.1

Logically:

    Transaction identifier
        Ti value: 0 (bit 5-7)
        Ti flag: 1 (bit 8)

ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1

Logically

    Event list
        Event 1:   Call Connected
    Device identities
        Source device: ME

Destination device:	UICC	
Transaction identifier		
Ti value:	0 (bit 5-7)	
Ti flag:	1 (bit 8)	

Coding:

BER-TLV:	D6	0A	99	01	01	82	02	82	81	9C	01	80

Expected Sequence 1.2 (SET UP EVENT LIST, Replace Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1	[Call Connected and Call Disconnected Events]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2	[Call Disconnected Event]
8	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2	
9	UICC → ME	PROACTIVE UICC SESSION ENDED	
10	USS → ME	SETUP 1.2.2	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → USS	CONNECT 1.2.2	
13	USS → ME	DISCONNECT 1.2.2	
14	ME → UICC	ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2A or ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2B	[Call Disconnect Event]
15	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1

Logically:

Command details		
Command number:	1	
Command type:	SET UP EVENT LIST	
Command qualifier:	'00'	
Device identities		
Source device:	UICC	
Destination device:	ME	
Event list		
Event 1:	Call Connected	
Event 2:	Call Disconnected	

Coding:

BER-TLV:	D0	0D	81	03	01	05	00	82	02	81	82	99
	02	01	02									

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     '00'
    Device identities
        Source device:         ME
        Destination device:    UICC
    Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     '00'
    Device identities
        Source device:         UICC
        Destination device:    ME
    Event list
        Event 1:               Call Disconnected
```

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	02										

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     '00'
    Device identities
        Source device:         ME
        Destination device:    UICC
    Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.2.2

Logically:

```
    Transaction identifier
        Ti value:              0 (bit 5-7)
        Ti flag:               0 (bit 8)
    Address
        TON:                   "Unknown"
```

NPI: "ISDN/ telephone numbering plan"
Dialling number string: "9876"

CONNECT 1.2.2

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 1 (bit 8)

DISCONNECT 1.2.2

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause
    Value: Normal call clearing

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2A

Logically:

Event list
    Event 1: Call Disconnected
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause
    Value: Normal call clearing

Coding:

BER-TLV:	D6	0E	99	01	02	82	02	83	81	9C	01	00
	9A	02	60	90								

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2B

Logically:

Event list
    Event 1: Call Disconnected
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause
    Value: Normal call clearing

Coding:

BER-TLV:	D6	0E	99	01	02	82	02	83	81	9C	01	00
	9A	02	E0	90								

Expected Sequence 1.3 (SET UP EVENT LIST, Remove Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1	[Call Connected Event]
	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1	
4	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.2	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2	[Remove Event]
7	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
10	USS → ME	SETUP 1.3.2	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → USS	CONNECT 1.3.2	
13	ME → UICC	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
14	USS → ME	DISCONNECT 1.3.2	

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     '00'
    Device identities
        Source device:         UICC
        Destination device:    ME
    Event list
        Event 1:               Call Connected
```

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     '00'
    Device identities
        Source device:         ME
        Destination device:    UICC
    Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
        Event list: Empty

Coding:

BER-TLV:	D0	0B	81	03	01	05	00	82	02	81	82	99
	00											

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.3.2

Logically:

    Transaction identifier
        Ti value: 0 (bit 5-7)
        Ti flag: 0 (bit 8)
    Address
        TON: "Unknown"
        NPI: "ISDN/ telephone numbering plan"
        Dialling number string: "9876"

CONNECT 1.3.2

Logically:

    Transaction identifier
        Ti value: 0 (bit 5-7)
        Ti flag: 1 (bit 8)

DISCONNECT 1.3.2

Logically:

    Transaction identifier

Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)
Cause
Value: Normal call clearing

Expected Sequence 1.4 (SET UP EVENT LIST, Remove Event on ME Power Cycle)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1	[Call Connected Event]
	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1	
4	UICC → ME	PROACTIVE UICC SESSION ENDED	
5	User → ME	Power off ME	
6	User → ME	Power on ME	
7	USS → ME	SETUP 1.4.1	[Incoming call alert]
8	USER → ME	User shall accept the incoming call	
9	ME → USS	CONNECT 1.4.1	
10	ME → UICC	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
11	USS → ME	DISCONNECT 1.4.1	

PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.4.1

Logically:

  Transaction identifier
          Ti value: 0 (bit 5-7)
          Ti flag: 0 (bit 8)
  Address
          TON: "Unknown"
          NPI: "ISDN/ telephone numbering plan"
          Dialling number string: "9876"

CONNECT 1.4.1

Logically:

  Transaction identifier
          Ti value: 0 (bit 5-7)
          Ti flag: 1 (bit 8)

DISCONNECT 1.4.1

Logically:

  Transaction identifier
          Ti value: 0 (bit 5-7)
          Ti flag: 0 (bit 8)
  Cause
          Value: Normal call clearing

27.22.4.16.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4.

27.22.4.17 PERFORM CARD APDU

27.22.4.17.1 PERFORM CARD APDU (normal)

27.22.4.17.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.17.1.2 Conformance requirement

The ME shall support the Proactive UICC: Perform Card APDU facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.17, clause 6.6.17, clause 6.8, clause 8.6, clause 8.7, clause 8.35, clause 8.36 and clause 8.12.9.

Additionally the ME shall support multiple card operation as defined in:

- 3GPP TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

27.22.4.17.1.3 Test purpose

To verify that the ME sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive UICC command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this particular case a special Test-SIM (TestSIM) with T=0 protocol is chosen as additional card for the additional ME card reader (for coding of the TestSIM see annex A).

27.22.4.17.1.4   Method of test

27.22.4.17.1.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The TestSIM is inserted in the additional ME card reader.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

The elementary files of the TestSIM are coded as defined in annex A. Another card with different parameters may be used as TestSIM to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

27.22.4.17.1.4.2   Procedure

Expected Sequence 1.1 (PERFORM CARD APDU, card reader 1, additional card inserted, Select MF and Get Response)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1	[ATR]
6	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]
7	UICC → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Masterfile]
10	ME → SIM2	C-APDU: SELECT 1.1	[Select Masterfile]
11	SIM2 → ME	R-APDU: SELECT 1.1	[Command performed successfully - length '1B' of response data]
12	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.2	[Get Response with length '1B']
16	ME → SIM2	C-APDU: GET RESPONSE 1.1	[Get Response with length '1B']
17	SIM2 → ME	R-APDU: GET RESPONSE 1.1	[Response data with length '1B']
18	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.2	[Response data with length '1B']

PROACTIVE COMMAND POWER ON CARD 1.1.1

Logically:

Command details
    Command number: 1
    Command type: POWER ON CARD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

ANSWER TO RESET 1.1

Logically:

TS (Initial character):   '3B'
T0 (Format character):   '86' (Following interface characters: TD(1), number of historical characters: 6)
TD1:   '00' (Following interface characters: none, Transfer protocol: T=0)
T1:   91
T2:   99
T3:   00
T4:   12
T5:   C1
T6:   00

Coding:

Coding:	3B	86	00	91	99	00	12	C1	00

TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

Command details
    Command number: 1
    Command type: POWER ON CARD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card ATR
    TS (Initial character):   '3B'
    T0 (Format character):   '86' (Following interface characters: TD(1), number of historical characters: 6)
    TD1:   '00' (Following interface characters: none, Transfer protocol: T=0)
    T1:   91
    T2:   99
    T3:   00
    T4:   12
    T5:   C1
    T6:   00

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	09	3B	86	00	91	99	00	12	C1	00	

PROACTIVE COMMAND PERFORM CARD APDU 1.1.1

Logically:

Command details
    Command number: 1
    Command type: PERFORM CARD APDU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Card Reader 1
C-APDU
    Class: 'A0'
    Instruction: SELECT
    P1 parameter: '00'
    P2 parameter: '00'
    Lc: '02'
    Data: Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	3F	00				

C-APDU: SELECT 1.1

Logically:

C-APDU
    Class: 'A0'
    Instruction: SELECT
    P1 parameter: '00'
    P2 parameter: '00'
    Lc: '02'
    Data: Master File

Coding:

Coding:	A0	A4	00	00	02	3F	00

R-APDU: SELECT 1.1

Logically:

Status Words
    SW1 / SW2:   Command performed successfully - length '1B' of response data

Coding:

Coding:	9F	1B

TERMINAL RESPONSE: PERFORM CARD APDU 1.1.1

Logically:

Command details
    Command number: 1
    Command type: PERFORM CARD APDU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
R-APDU
    Status Words

SW1 / SW2: Command performed successfully - length '1B' of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	1B								

PROACTIVE COMMAND PERFORM CARD APDU 1.1.2

Logically:

    Command details
        Command number: 1
        Command type: PERFORM CARD APDU
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: Card Reader 1
    C-APDU
        Class: 'A0'
        Instruction: GET RESPONSE
        P1 parameter: '00'
        P2 parameter: '00'
        Le: '1B'

Coding:

BER-TLV:	D0	10	81	03	01	30	00	82	02	81	11	A2
	05	A0	C0	00	00	1B						

C-APDU: GET RESPONSE 1.1

Logically:

    C-APDU
        Class: 'A0'
        Instruction: GET RESPONSE
        P1 parameter: '00'
        P2 parameter: '00'
        Le: '1B'

Coding:

Coding:	A0	C0	00	00	1B

R-APDU: GET RESPONSE 1.1

Logically:

    R-APDU data
        RFU: '00 00'
        Not allocated memory: '653 bytes'
        File ID: Master File
        Type of file: MF
        RFU: 00 00 22 FF 01'
        Length of following data: 14 bytes'
        File characteristics:
        Clock Stop: Not allowed
        Min. frequency for 3GPP algorithm: 13/8 MHz
        Technology identification: 3V Technology SIM
        CHV1:   disabled
        DFs in current directory: 2

EFs in current directory:	8	
Number of CHV and admin. Codes:	3	
RFU byte 18:	00	
CHV1 status:		
False representations remaining:	3	
RFU-bits 7-5:	000	
Secret code:	Initialized	
Unlock CHV1 status:		
False representations remaining:	10	
RFU-bits 7-5:	000	
Secret code:	Initialized	
CHV2 status:		
False representations remaining:	3	
RFU-bits 7-5:	000	
Secret code:	Initialized	
Unlock CHV2 status:		
False representations remaining:	10	
RFU-bits 7-5:	000	
Secret code:	Initialized	
RFU bytes 23:	00	
Reserved for admin. management:	00 83 00 FF	

Status Words

SW1 / SW2: Normal ending of command

Coding:

Coding:	00	00	02	8D	3F	00	01	00	00	22	FF	01
	0E	9B	02	08	03	00	83	8A	83	8A	00	00
	83	00	FF	90	00							

TERMINAL RESPONSE: PERFORM CARD APDU 1.1.2

Logically:

Command details		
Command number:	1	
Command type:	PERFORM CARD APDU	
Command qualifier:	"00"	
Device identities		
Source device:	ME	
Destination device:	UICC	
Result		
General Result:	Command performed successfully	
R-APDU data		
RFU:	'00 00'	
Not allocated memory:	'653 bytes'	
File ID:	Master File	
Type of file:	MF	
RFU:	00 00 22 FF 01'	
Length of following data:	14 bytes'	
File characteristics:		
Clock Stop:	Not allowed	
Min. frequency for 3GPP algorithm:	13/8 MHz	
Technology identification:	3V Technology SIM	
CHV1:	disabled	
DFs in current directory:	2	
EFs in current directory:		
Number of CHV and admin. Codes:	3	
RFU byte 18:	00	
CHV1 status:		
False representations remaining:	3	
RFU-bits 7-5:	000	

Secret code:	Initialized
Unlock CHV1 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
CHV2 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV2 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
RFU bytes 23:	00
Reserved for admin. management:	00 83 00 FF

Statu Words

SW1 / SW2:	Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	0F	00	00	02	8D	3F	00	01	00	00	22
	FF	01	0E	90	00							

Expected Sequence 1.2 (PERFORM CARD APDU, card reader 1, additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER ON CARD 1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1	[ATR]
6	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1	[ATR]
7	UICC → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.1	[Select GSM]
10	ME → SIM2	C-APDU: SELECT 1.2a	[Select GSM]
11	SIM2 → ME	R-APDU: SELECT 1.2a	
12	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.1	
13	UICC → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.2	[Select PLMN]
16	ME → SIM2	C-APDU: SELECT 1.2b	[Select PLMN]
17	SIM2 → ME	R-APDU: SELECT 1.2b	
18	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.2	
19	UICC → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.3	[Update Binary]
22	ME → SIM2	C-APDU: UPDATE BINARY 1.2	[Update Binary]

Step	Direction	MESSAGE / Action	Comments
23	SIM2 → ME	R-APDU: UPDATE BINARY 1.2	
24	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	
25	UICC → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.4	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.4	[Read Binary]
28	ME → SIM2	C-APDU: READ BINARY 1.2	[Read Binary]
29	SIM2 → ME	R-APDU: READ BINARY 1.2	
30	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.4	
31	UICC → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.5	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.5	[Update Binary]
34	ME → SIM2	C-APDU: UPDATE BINARY 1.2a	[Update Binary]
35	SIM2 → ME	R-APDU: UPDATE BINARY 1.2	
36	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	

PROACTIVE COMMAND PERFORM CARD APDU 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: PERFORM CARD APDU
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Card Reader 1
    C-APDU
        Class: 'A0'
        Instruction: SELECT
        P1 parameter: '00'
        P2 parameter: '00'
        Lc: '02'
        Data: DF GSM

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	7F	20				

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.2

Logically:

    Command details
        Command number: 1
        Command type: PERFORM CARD APDU
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Card Reader 1
    C-APDU
        Class: 'A0'
        Instruction: SELECT

P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'02'
Data:	EF PLMN

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	6F	30				

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.3

Logically:

Command details
    Command number: 1
    Command type: PERFORM CARD APDU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Card Reader 1
C-APDU
    Class: 'A0'
    Instruction: UPDATE BINARY
    P1 parameter: '00'
    P2 parameter: '00'
    Lc: '18'
    Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Coding:

BER-TLV:	D0	28	81	03	01	30	00	82	02	81	11	A2
	1D	A0	D6	00	00	18	00	01	02	03	04	05
	06	07	08	09	0A	0B	0C	0D	0E	0F	10	11
	12	13	14	15	16	17						

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.4

Logically:

Command details
    Command number: 1
    Command type: PERFORM CARD APDU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Card Reader 1
C-APDU
    Class: 'A0'
    Instruction: READ BINARY
    P1 parameter: '00'
    P2 parameter: '00'
    Le: '18'

Coding:

BER-TLV:	D0	10	81	03	01	30	00	82	02	81	11	A2
	05	A0	B0	00	00	18						

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.5

Logically:

```
    Command details
        Command number:        1
        Command type:          PERFORM CARD APDU
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Card Reader 1
    C-APDU
        Class:                 'A0'
        Instruction:           UPDATE BINARY
        P1 parameter:          '00'
        P2 parameter:          '00'
        Lc:                    '18'
        Data:                  'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF' FF FF FF FF FF FF FF FF'
```

Coding:

BER-TLV:	D0	28	81	03	01	30	00	82	02	81	11	A2
	1D	A0	D6	00	00	18	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF						

C-APDU: SELECT 1.2a

Logically:

```
    C-APDU
        Class:                 'A0'
        Instruction:           SELECT
        P1 parameter:          '00'
        P2 parameter:          '00'
        Lc:                    '02'
        Data:                  DF GSM
```

Coding:

Coding:	A0	A4	00	00	02	7F	20

C-APDU: SELECT 1.2b

Logically:

```
    C-APDU
        Class:                 'A0'
        Instruction:           SELECT
        P1 parameter:          '00'
        P2 parameter:          '00'
        Lc:                    '02'
        Data:                  EF PLMN
```

Coding:

Coding:	A0	A4	00	00	02	6F	30

C-APDU: UPDATE BINARY 1.2

Logically:

```
    C-APDU
        Class:                 'A0'
```

	Instruction:	UPDATE BINARY
	P1 parameter:	'00'
	P2 parameter:	'00'
	Lc:	'18'
	Data:	'00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Coding:

Coding:	A0	D6	00	00	18	00	01	02	03	04	05	06
	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12
	13	14	15	16	17							

C-APDU: READ BINARY 1.2

Logically:

    C-APDU

	Class:	'A0'
	Instruction:	READ BINARY
	P1 parameter:	'00'
	P2 parameter:	'00'
	Le:	'18'

Coding:

Coding:	A0	B0	00	00	18

C-APDU: UPDATE BINARY 1.2a

Logically:

    C-APDU

	Class:	'A0'
	Instruction:	UPDATE BINARY
	P1 parameter:	'00'
	P2 parameter:	'00'
	Lc:	'18'
	Data:	'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF'

Coding:

Coding:	A0	D6	00	00	18	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF							

R-APDU: SELECT 1.2a

Logically:

    Status Words

	SW1 / SW2:	Normal ending of command - length '1B' of response data

Coding:

Coding:	9F	1B

R-APDU: SELECT 1.2b

Logically:

    Status Words

	SW1 / SW2:	Normal ending of command - length '0F' of response data

Coding:

Coding:	9F	0F

R-APDU: UPDATE BINARY 1.2

Logically:

    Status Words
        SW1 / SW2:   Normal ending of command

Coding:

Coding:	90	00

R-APDU: READ BINARY 1.2

Logically:

    R-APDU data
        Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'
    Status Words
        SW1 / SW2:   Normal ending of command

Coding:

Coding:	00	01	02	03	04	05	06	07	08	09	0A	0B
	0C	0D	0E	0F	10	11	12	13	14	15	16	17
	90	00										

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: PERFORM CARD APDU
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    R-APDU
        Status Words
        SW1 / SW2:   Command performed successfully - length 1B of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	1B								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.2

Logically:

    Command details
        Command number: 1
        Command type: PERFORM CARD APDU
        Command qualifier: "00"
    Device identities
        Source device: ME

        Destination device: UICC
    Result
        General Result: Command performed successfully
    R-APDU
        Status Words
        SW1 / SW2:   Command performed successfully - length 0F of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	0F								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3

Logically:

    Command details
        Command number: 1
        Command type: PERFORM CARD APDU
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    R-APDU
        Status Words
        SW1 / SW2:   Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	90	00								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.4

Logically:

    Command details
        Command number: 1
        Command type: PERFORM CARD APDU
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    R-APDU
        R-APDU data
        Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'
        Status Words
        SW1 / SW2:   Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	1A	00	01	02	03	04	05	06	07	08	09
	0A	0B	0C	0D	0E	0F	10	11	12	13	14	15
	16	17	90	00								

Expected Sequence 1.3 (PERFORM CARD APDU, card reader 1, card inserted, card powered off)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER OFF CARD 1.3.1	[Power off card reader 1]
4	ME → SIM2	POWER OFF CARD	[Power off card reader 1]
5	ME → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.3.1	[Successful]
6	ME	SIM2 is powered off from ME card reader	
7	UICC → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.1.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Master File]
10	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1	[Card powered off]

PROACTIVE COMMAND: POWER OFF CARD 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1

Logically:

    Command details

```
        Command number:       1
        Command type:         PERFORM CARD APDU
        Command qualifier:    "00"
   Device identities
        Source device:        ME
        Destination device:   UICC
   Result
        General Result:       MultipleCard commands error
        Additional Information: Card powered off
```

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	04									

Expected Sequence 1.4 (PERFORM CARD APDU, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	ME	SIM2 is removed from ME card reader	
2	UICC → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.1.1	
3	ME → UICC	FETCH	
4	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Master File]
5	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1	[No card inserted]

TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1

Logically:

```
   Command details
        Command number:       1
        Command type:         PERFORM CARD APDU
        Command qualifier:    "00"
   Device identities
        Source device:        ME
        Destination device:   UICC
   Result
        General Result:       MultipleCard commands error
        Additional Information: Card removed or not present
```

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	02									

Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional ME card reader))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.5.1	[invalid card reader ID]
3	ME → UICC	FETCH	
4	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1	[Select Master File]
5	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1	[Specified reader not valid]

PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1

Logically:

Command details
    Command number: 1
    Command type: PERFORM CARD APDU
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Card Reader 7
C-APDU
    Class: 'A0'
    Instruction: SELECT
    P1 parameter: '00'
    P2 parameter: '00'
    Lc: '02'
    Data: Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	17	A2
	07	A0	A4	00	00	02	3F	00				

C-APDU: SELECT 1.1

Logically:

C-APDU
    Class: 'A0'
    Instruction: SELECT
    P1 parameter: '00'
    P2 parameter: '00'
    Lc: '02'
    Data: Master File

Coding:

Coding:	A0	A4	00	00	02	3F	00

TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1

Logically:

Command details
    Command number: 1
    Command type: PERFORM CARD APDU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: MultipleCard commands error
    Additional Information: Specified reader not valid

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	09									

27.22.4.17.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5.

27.22.4.17.2   PERFORM CARD APDU (detachable card reader)

27.22.4.17.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.17.2.2   Conformance requirement

27.22.4.17.2.3   Test purpose

To verify that the ME sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive UICC command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.17.2.4   Method of test

27.22.4.17.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The card reader shall be detached from the ME.

27.22.4.17.2.4.2   Procedure

Expected Sequence 2.1 (PERFORM CARD APDU, card reader 1, card reader detached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PERFORM CARD APDU 2.1.1	[Select Master File]
4	ME → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 2.1.1	[Card reader detached]

PROACTIVE COMMAND: PERFORM CARD APDU 2.1.1

Logically:

```
    Command details
        Command number:        1
        Command type:          PERFORM CARD APDU
        Command qualifier:     "00"
    Device identities
        Source device:         UICC
        Destination device:    Card Reader 1
    C-APDU
        Class:                 'A0'
        Instruction:           SELECT
        P1 parameter:          '00'
        P2 parameter:          '00'
        Lc:                    '02'
        Data:                  Master File
```

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	3F	00				

TERMINAL RESPONSE: PERFORM CARD APDU 2.1.1

Logically:

Command details
    Command number: 1
    Command type: PERFORM CARD APDU
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: MultipleCard commands error
    Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	01									

27.22.4.17.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.18 POWER OFF CARD

27.22.4.18.1 POWER OFF CARD (normal)

27.22.4.18.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.18.1.2 Conformance requirement

The ME shall support the Proactive UICC: Power Off Card facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.18, clause 6.6.18, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 5.2 and annex H.

27.22.4.18.1.3 Test purpose

To verify that the ME closes a session with the additional card identified in the POWER OFF CARD proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.4.18.1.4 Method of test

27.22.4.18.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME card reader is connected to aSIM Simulator (SIM2). Instead of a SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

27.22.4.18.1.4.2   Procedure

Expected Sequence 1.1 (POWER OFF CARD, card reader 1)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER OFF CARD 1.1.1	[Power off card reader 1]
4	ME → SIM2	POWER OFF CARD	[Power off card reader 1]
5	ME → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.1.1	[Successful]

PROACTIVE COMMAND: POWER OFF CARD 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

Expected Sequence 1.2 (POWER OFF CARD, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from ME card reader	
2	UICC → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.1.1	
3	ME → UICC	FETCH	
4	UICC → ME	PROACTIVE COMMAND: POWER OFF CARD 1.1.1	[Power off card reader 1]
5	ME → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.2.1	[No card inserted]

TERMINAL RESPONSE: POWER OFF CARD 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: MultipleCard commands error
        Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	02
	38	02									

27.22.4.18.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.2.

27.22.4.18.2 POWER OFF CARD (detachable card reader)

27.22.4.18.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.18.2.2 Conformance requirement

Void.

27.22.4.18.2.3 Test purpose

To verify that the ME closes a session with the additional card identified in the POWER OFF CARD proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.18.2.4 Method of test

27.22.4.18.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2).

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the ME.

27.22.4.18.2.4.2 Procedure

Expected Sequence 2.1 (POWER OFF CARD, card reader 1, no card reader attached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER OFF CARD 2.1.1	[Power off card reader 1]
4	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 2.1.1	[Card reader removed or not present]

PROACTIVE COMMAND: POWER OFF CARD 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: ME
    Destination device: UICC
    Result
        General Result: MultipleCard commands error
        Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	02
	38	01									

27.22.4.18.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.19 POWER ON CARD

27.22.4.19.1 POWER ON CARD (normal)

27.22.4.19.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.19.1.2 Conformance requirement

The ME shall support the Proactive UICC: Power On Card facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.19, clause 6.6.19, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 8.34, clause 5.2 and annex H.

- ISO /IEC 7816-3 [24].

27.22.4.19.1.3 Test purpose

To verify that the ME starts a session with the additional card identified in the POWER ON CARD proactive UICC command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.4.19.1.4 Method of test

27.22.4.19.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2). Instead of the SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

27.22.4.19.1.4.2 Procedure

Expected Sequence 1.1 (POWER ON CARD, card reader 1)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1.1	[ATR]
6	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]

PROACTIVE COMMAND: POWER ON CARD 1.1.1

Logically:

Command details
    Command number: 1
    Command type: POWER ON CARD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

ANSWER TO RESET 1.1.1

Logically:

    TS (Initial character):   '3B'
    T0 (Format character):   0F
    T1 (Historical character):   'P'
    T2 (Historical character):   'o'
    T3 (Historical character):   'w'
    T4 (Historical character):   'e'
    T5 (Historical character):   'r'
    T6 (Historical character):   'O'
    T7 (Historical character):   'n'
    T8 (Historical character):   'C'
    T9 (Historical character):   'a'
    T10 (Historical character):   'r'
    T11 (Historical character):   'd'
    T12 (Historical character):   'T'
    T13 (Historical character):   'e'
    T14 (Historical character):   's'
    T15 (Historical character):   't'

Coding:

BER-TLV:	3B	0F	50	6F	77	65	72	4F	6E	43	61	72
	64	54	65	74	75							

TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

Command details
    Command number: 1
    Command type: POWER ON CARD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card ATR
    TS (Initial character):   '3B'
    T0 (Format character):   0F
    T1 (Historical character):   'P'
    T2 (Historical character):   'o'
    T3 (Historical character):   'w'
    T4 (Historical character):   'e'
    T5 (Historical character):   'r'
    T6 (Historical character):   'O'
    T7 (Historical character):   'n'

T8 (Historical character):	'C'	
T9 (Historical character):	'a'	
T10 (Historical character):	'r'	
T11 (Historical character):	'd'	
T12 (Historical character):	'T'	
T13 (Historical character):	'e'	
T14 (Historical character):	's'	
T15 (Historical character):	't'	

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	11	3B	0F	50	6F	77	65	72	4F	6E	43
	61	72	64	54	65	74	75					

Expected Sequence 1.2 (POWER ON CARD, card reader 1, no ATR)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	NO ATR	[No ATR]
6	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 1.2.1	[No ATR]

TERMINAL RESPONSE: POWER ON CARD 1.2.1

Logically:

Command details
    Command number: 1
    Command type: POWER ON CARD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: MultipleCard commands error
    Additional Information: Card mute

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	06											

Expected Sequence 1.3 (POWER ON CARD, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from ME card reader	
2	UICC → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
3	ME → UICC	FETCH	
4	UICC → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
5	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 1.3.1	[Card removed or not present]

TERMINAL RESPONSE: POWER ON CARD 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: POWER ON CARD
        Command qualifier: "00"
    Device identities
        Source device: Card reader 0
        Destination device: UICC
    Result
        General Result: MultipleCard commands error
        Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	02											

27.22.4.19.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.19.2   POWER ON CARD (detachable card reader)

27.22.4.19.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.19.2.2   Conformance requirement

27.22.4.19.2.3   Test purpose

To verify that the ME starts a session with the additional card identified in the POWER ON CARD proactive UICC command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the UICC.

27.22.4.19.2.4   Method of test

27.22.4.19.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The card reader shall be detached from the ME.

27.22.4.19.2.4.2   Procedure

Expected Sequence 2.1 (POWER ON CARD, card reader 1, no card reader attached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER ON CARD 2.1.1	[Power on card reader 1]
4	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 2.1.1	[Card reader removed or not present]

PROACTIVE COMMAND: POWER ON CARD 2.1.1

Logically:

Command details
    Command number: 1
    Command type: POWER ON CARD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

TERMINAL RESPONSE: POWER ON CARD 2 .1.1

Logically:

Command details
    Command number: 1
    Command type: POWER ON CARD
    Command qualifier: "00"
Device identities
    Source device: Card reader 0
    Destination device: UICC
Result
    General Result: MultipleCard commands error
    Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	01											

27.22.4.19.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.20   GET READER STATUS

27.22.4.20.1   GET READER STATUS (normal)

27.22.4.20.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.20.1.2   Conformance requirement

The ME shall support the Proactive UICC: Get Card Reader Status facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.20, clause 6.6.20, clause 6.8, clause 8.6, clause 8.7, clause 8.33, clause 8.57 and annex H.

Additionally the ME shall support multiple card operation as defined in:

- 3GPP TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

27.22.4.20.1.3   Test purpose

To verify that the ME sends starts a session with the additional card identified in the GET CARD READER STATUS proactive UICC command, and successfully returns information about all interfaces to additional card reader(s) in the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this test case the SIM-Simulator (SIM2) shall response with the ATR "3B 00".

27.22.4.20.1.4   Method of test

27.22.4.20.1.4.1   Initial conditions

The ME shall support the Proactive UICC: Get Card Reader Status (Card Reader Status) facility. The ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2). Instead of the SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

27.22.4.20.1.4.2   Procedure

Expected Sequence 1.1 (GET CARD READER STATUS, card reader 1, card inserted, card powered)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1.1	[ATR]
6	ME → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	[Get Card Reader Status]
10	ME → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1a Or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1c or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1d	[Successful]

PROACTIVE COMMAND: POWER ON CARD 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: POWER ON CARD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

ANSWER TO RESET 1.1.1

Logically:

    TS (Initial character):   '3B'
    T0 (Format character):   '00'

Coding:

BER-TLV:	A1	02	3B	00

TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

    Command details
        Command number: 1

	Command type:	POWER ON CARD
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Card ATR		
	TS (Initial character):	'3B'
	T0 (Format character):	'00'

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	02	3B	00								

PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1

Logically:

Command details		
	Command number:	1
	Command type:	GET CARD READER STATUS
	Command qualifier:	Card reader status
Device identities		
	Source device:	UICC
	Destination device:	ME

Coding:

BER-TLV:	D0	09	81	03	01	33	00	82	02	81	82

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1a

Logically:

Command details		
	Command number:	1
	Command type:	GET CARD READER STATUS
	Command qualifier:	Card reader status
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Card reader status		
	Identity of card reader:	'01'
	Card reader removable:	'No'
	Card reader present:	Yes
	Card reader ID-1 size:	'Yes'
	Card present in reader:	Yes
	Card powered:	Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	F1							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1b

Logically:

Command details
    Command number: 1
    Command type: GET CARD READER STATUS
    Command qualifier: Card reader status
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card reader status
    Identity of card reader: '01'
    Card reader removable: 'No'
    Card reader present: Yes
    Card reader ID-1 size: 'No'
    Card present in reader: Yes
    Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	D1							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1c

Logically:

Command details
    Command number: 1
    Command type: GET CARD READER STATUS
    Command qualifier: Card reader status
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card reader status
    Identity of card reader: '01'
    Card reader removable: 'Yes'
    Card reader present: Yes
    Card reader ID-1 size: 'Yes'
    Card present in reader: Yes
    Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	F9							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1d

Logically:

Command details
    Command number: 1
    Command type: GET CARD READER STATUS
    Command qualifier: Card reader status
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card reader status

Identity of card reader: '01'
Card reader removable: 'Yes'
Card reader present: Yes
Card reader ID-1 size: 'No'
Card present in reader: Yes
Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	D9							

Expected Sequence 1.2 (GET CARD READER STATUS, card reader 1, card inserted, card not powered)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POWER OFF CARD 1.2.1	[Power off card reader 1]
4	ME → SIM2	POWER OFF CARD	[Power off card reader 1]
5	ME → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.2.1	[Successful]
6	UICC → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
7	ME → UICC	FETCH	
8	UICC → ME	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	[Get Card Reader Status]
9	ME → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1a Or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1c Or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1d	[Successful]

PROACTIVE COMMAND: POWER OFF CARD 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: POWER OFF CARD
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 1.2.1

Logically:

    Command details

Command number:	1
Command type:	POWER OFF CARD
Command qualifier:	"00"

Device identities

Source device:	ME
Destination device:	UICC

Result

General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1a

Logically:

Command details

Command number:	1
Command type:	GET CARD READER STATUS
Command qualifier:	Card reader status

Device identities

Source device:	ME
Destination device:	UICC

Result

General Result:	Command performed successfully

Card reader status

Identity of card reader:	'01'
Card reader removable:	'No'
Card reader present:	Yes
Card reader ID-1 size:	'Yes'
Card present in reader:	Yes
Card powered:	No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	71							

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1b

Logically:

Command details

Command number:	1
Command type:	GET CARD READER STATUS
Command qualifier:	Card reader status

Device identities

Source device:	ME
Destination device:	UICC

Result

General Result:	Command performed successfully
Card reader status	
Identity of card reader:	'01'
Card reader removable:	'No'
Card reader present:	Yes
Card reader ID-1 size:	'No'
Card present in reader:	Yes
Card powered:	No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	51							

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1c

Logically:

Command details
    Command number: 1
    Command type: GET CARD READER STATUS
    Command qualifier: Card reader status
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card reader status
    Identity of card reader: '01'
    Card reader removable: 'Yes'
    Card reader present: Yes
    Card reader ID-1 size: 'Yes'
    Card present in reader: Yes
    Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	79							

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1d

Logically:

Command details
    Command number: 1
    Command type: GET CARD READER STATUS
    Command qualifier: Card reader status
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card reader status
    Identity of card reader: '01'
    Card reader removable: 'Yes'
    Card reader present: Yes
    Card reader ID-1 size: 'No'
    Card present in reader: Yes
    Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	59							

Expected Sequence 1.3 (GET CARD READER STATUS, card reader 1, card not present)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from ME card reader	
2	UICC → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
3	ME → UICC	FETCH	
4	UICC → ME	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	[Get Card Reader Status]
5	ME → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1a or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1c or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1d	[Successful]

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1a

Logically:

    Command details
        Command number: 1
        Command type: GET CARD READER STATUS
        Command qualifier: Card reader status
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Card reader status
        Identity of card reader: '1'
        Card reader removable: 'No'
        Card reader present: Yes
        Card reader ID-1 size: 'Yes'
        Card present in reader: No
        Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	31							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1b

Logically:

    Command details
        Command number: 1
        Command type: GET CARD READER STATUS
        Command qualifier: card reader status
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Card reader status
        Identity of card reader: '1'
        Card reader removable: 'No'

ETSI

	Card reader present:	Yes
	Card reader ID-1 size:	'No'
	Card present in reader:	No
	Card powered:	No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	11							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1c

Logically:

Command details
    Command number: 1
    Command type: GET CARD READER STATUS
    Command qualifier: card reader status
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card reader status
    Identity of card reader: '1'
    Card reader removable: 'Yes'
    Card reader present: Yes
    Card reader ID-1 size: 'Yes'
    Card present in reader: No
    Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	39							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1d

Logically:

Command details
    Command number: 1
    Command type: GET CARD READER STATUS
    Command qualifier: Card reader status
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Card reader status
    Identity of card reader: '1'
    Card reader removable: 'Yes'
    Card reader present: Yes
    Card reader ID-1 size: 'No'
    Card present in reader: No
    Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	19							

27.22.4.20.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.20.2   GET CARD READER STATUS (detachable card reader)

27.22.4.20.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.20.2.2   Conformance requirement

Void.

27.22.4.20.2.3   Test purpose

To verify that the ME closes a session with the additional card identified in the GET CARD READER STATUS proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.20.2.4   Method of test

27.22.4.20.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the ME.

27.22.4.20.2.4.2   Procedure

Expected Sequence 2.1 (GET CARD READER STATUS, no card reader attached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET CARD READER STATUS 2.1.1	[Get Card Reader Status]
4	ME → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1a or TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1b	[Successful]

PROACTIVE COMMAND: GET CARD READER STATUS 2.1.1

Logically:

```
    Command details
            Command number:        1
            Command type:          GET CARD READER STATUS
            Command qualifier:     Card Reader Status
    Device identities
            Source device:         UICC
            Destination device:    ME
```

Coding:

BER-TLV:	D0	09	81	03	01	33	00	82	02	81	82

TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1a

Logically:

```
Command details
       Command number:        1
       Command type:          GET CARD READER STATUS
       Command qualifier:     Card reader status
Device identities
       Source device:         ME
       Destination device:    UICC
Result
       General Result:        Command performed successfully
Card reader status
       Identity of card reader: 01
       Card reader removable: Yes
       Card reader present:   No
       Card reader ID-1 size: Yes
       Card present in reader: No
       Card powered:          No
```

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	29							

TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1b

Logically:

```
Command details
       Command number:        1
       Command type:          GET CARD READER STATUS
       Command qualifier:     Card reader status
Device identities
       Source device:         ME
       Destination device:    UICC
Result
       General Result:        Command performed successfully
Card reader status
       Identity of card reader: 01
       Card reader removable: Yes
       Card reader present:   No
       Card reader ID-1 size: No
       Card present in reader: No
       Card powered:          No
```

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	09							

27.22.4.20.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.21   TIMER MANAGEMENT and ENVELOPE TIMER EXPIRATION

27.22.4.21.1   TIMER MANAGEMENT (normal)

27.22.4.21.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.21.1.2   Conformance Requirement

The ME shall support the TIMER MANAGEMENT as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.1.3   Test purpose

To verify that the ME manages correctly its internal timers, start a timer, deactivate a timer or return the current value of a timer according to the Timer Identifier defined in the TIMER MANAGEMENT proactive UICC command.

27.22.4.21.1.4   Method of Test

27.22.4.21.1.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.21.1.4.2 Procedure

Expected Sequence 1.1 (TIMER MANAGEMENT, start timer 1 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.1	[start timer 1]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1	[command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.2	After 1 minute following reception of Terminal Response
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2	[ask value of timer 1]
8	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2	[command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.3	Before timer expires!
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3	[reinitialize timer 1]
12	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.3	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.4	After 30 s following reception of the Terminal Response
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.4	[deactivate timer 1]
16	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.4	[command performed successfully]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 1
    Timer value
        Value of timer: 5 min

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	50	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get the current value of the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	01										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 1
    Timer value
        Value of timer: 1min 30s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	10	03					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.4

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: deactivate the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1 and 1.1.3

Logically:

    Command details

```
            Command number:        1
            Command type:          TIMER MANAGEMENT
            Command qualifier:     start the Timer
        Device identities
            Source device:         ME
            Destination device:    UICC
        Result
            General Result:        Command performed successfully
        Timer identifier
            Identifier of timer:   1
```

Coding::

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2

Logically:

```
        Command details
            Command number:        1
            Command type:          TIMER MANAGEMENT
            Command qualifier:     get the current value of the Timer
        Device identities
            Source device:         ME
            Destination device:    UICC
        Result
            General Result:        Command performed successfully
        Timer identifier
            Identifier of timer:   1
        Timer value
            Value of timer:        value < to the timer value of command 1.1.1
```

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	01	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.4

Logically:

```
        Command details
            Command number:        1
            Command type:          TIMER MANAGEMENT
            Command qualifier:     deactivate the Timer
        Device identities
            Source device:         ME
            Destination device:    UICC
        Result
            General Result:        Command performed successfully
        Timer identifier
            Identifier of timer:   1
        Timer value
            Value of timer:        value < to the timer value of command 1.1.3
```

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	01	A5	03	xx	xx	xx				

Expected Sequence 1.2 (TIMER MANAGEMENT, start timer 2 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.1	[start timer 2]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.1	[command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.2	After 1 minute following reception of Terminal Response
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2	[ask value of timer 2]
8	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2	[command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.3	Before timer expires!
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.3	[reinitialize timer 2]
12	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.3	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.4	After 10 seconds following reception of Terminal Response
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.4	[deactivate timer 2]
16	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.4	[command performed successfully]

PROACTIVE COMMAND:TIMER MANAGEMENT 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 2
    Timer value
        Value of timer: 23 h 59 min 59 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	32	95	95					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT

Command qualifier: get the current value of the Timer

Device identities

Source device: UICC

Destination device: ME

Timer identifier

Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	02										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.3

Logically:

Command details

Command number: 1

Command type: TIMER MANAGEMENT

Command qualifier: start the Timer

Device identities

Source device: UICC

Destination device: ME

Timer identifier

Identifier of timer: 2

Timer value

Value of timer: 1 min 10 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	00	10	01					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.4

Logically:

Command details

Command number: 1

Command type: TIMER MANAGEMENT

Command qualifier: deactivate the Timer

Device identities

Source device: UICC

Destination device: ME

Timer identifier

Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.1 and 1.2.3

Logically:

Command details

Command number: 1

Command type: TIMER MANAGEMENT

Command qualifier: start the Timer

Device identities

Source device: ME

Destination device: UICC
Result
General Result: Command performed successfully
Timer identifier
Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	02									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get the current value of the Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Timer identifier
    Identifier of timer: 2
Timer value
    Value of timer: value < to the timer value of command 1.2.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	02	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.4

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: deactivate the Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Timer identifier
    Identifier of timer: 2
Timer value
    Value of timer: value < to the timer value of command 1.2.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	02	A5	03	xx	xx	xx				

Expected Sequence 1.3 (TIMER MANAGEMENT, start timer 8 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.1	[start timer 8]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.1	[command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.2	After 1 minute following reception of Terminal Response
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2	[ask value of timer 8]
8	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2	[command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.3	Before timer expires!
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3	[reinitialize timer 8]
12	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.3	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.4	After 30 seconds following reception of Terminal Response
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.4	[deactivate timer 8]
16	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.4	[command performed successfully]

PROACTIVE COMMAND:TIMER MANAGEMENT 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 8
    Timer value
        Value of timer: 20min

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	00	02	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT

    Command qualifier: get the current value of the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	08										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: start the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 8
Timer value
    Value of timer: 01 h 00 min 00 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	10	00	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.4

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: deactivate the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.1 and 1.3.3

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: start the Timer
Device identities
    Source device: ME

Destination device: UICC
Result
General Result: Command performed successfully
Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Timer identifier
Identifier of timer: 8
Timer value
Value of timer: value < to the timer value of command 1.3.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	08	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.4

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Timer identifier
Identifier of timer: 8
Timer value
Value of timer: value < to the timer value of command 1.3.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	08	A5	03	xx	xx	xx				

Expected Sequence1.4 (TIMER MANAGEMENT, try to get the current value of a timer which is not started: action in contradiction with the current timer state)

Step	Direction	MESSAGE / Action	Comments

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1	[get current value from timer 1]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1B	[action in contradiction with the current timer state]
5	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.2	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2	[get current value from timer 2]
8	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2B	[action in contradiction with the current timer state]
9	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.3	
10	ME → UICC	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3	[get current value from timer 3]
12	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3B	[action in contradiction with the current timer state]
13	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.4	
14	ME → UICC	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4	[get current value from timer 4]
16	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4B	[action in contradiction with the current timer state]
17	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.5	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5	[get current value from timer 5]
20	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5B	[action in contradiction with the current timer state]
21	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.6	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6	[get current value from timer 6]
24	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6B	[action in contradiction with the current timer state]

Step	Direction	MESSAGE / Action	Comments
25	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.7	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7	[get current value from timer 7]
28	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7B	[action in contradiction with the current timer state]
29	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.8	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8	[get current value from timer 8]
32	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8B	[action in contradiction with the current timer state]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get the current value of the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1A

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get current value from the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state
    Timer identifier
        Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	01									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1B

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get current value from the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get the current value of the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2A

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get current value from the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state
    Timer identifier
        Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	02									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2B

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get current value from the Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get the current value of the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 3

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	03										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3A

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get current value from the Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state
Timer identifier
    Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	03									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3B

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get current value from the Timer

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get the current value of the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 4

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	04										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4A

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get current value from the Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state
Timer identifier
    Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	04									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4B

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: get current value from the Timer
Device identities
    Source device: ME
    Destination device: UICC
Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get the current value of the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 5

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	05										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5A

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get current value from the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state
    Timer identifier
        Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	05									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5B

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get current value from the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get the current value of the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 6

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	06										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6A

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get current value from the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state
    Timer identifier
        Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	06									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6B

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: get current value from the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7

Logically:

```
    Command details
            Command number:         1
            Command type:           TIMER MANAGEMENT
            Command qualifier:      get the current value of the Timer
    Device identities
            Source device:          UICC
            Destination device:     ME
    Timer identifier
            Identifier of timer:    7
```

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	07										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7A

Logically:

```
    Command details
            Command number:         1
            Command type:           TIMER MANAGEMENT
            Command qualifier:      get current value from the Timer
    Device identities
            Source device:          ME
            Destination device:     UICC
    Result
            General Result:         Action in contradiction with the current timer state
    Timer identifier
            Identifier of timer:    7
```

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	07									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7B

Logically:

```
    Command details
            Command number:         1
            Command type:           TIMER MANAGEMENT
            Command qualifier:      get current value from the Timer
    Device identities
            Source device:          ME
            Destination device:     UICC
    Result
            General Result:         Action in contradiction with the current timer state
```

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8

Logically:

```
    Command details
            Command number:         1
```

Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer
Device identities
Source device: UICC
Destination device: ME
Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Action in contradiction with the current timer state
Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

Expected Sequence1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.1	
2	ME → UICC	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.1	[deactivate timer 1]

Step	Direction	MESSAGE / Action	Comments
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1B	[action in contradiction with the current timer state]
5	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.2	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.2	[deactivate timer 2]
8	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2B	[action in contradiction with the current timer state]
9	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.3	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.3	[deactivate timer 3]
12	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3B	[action in contradiction with the current timer state]
13	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.4	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.4	[deactivate timer 4]
16	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4B	[action in contradiction with the current timer state]
17	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.5	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.5	[deactivate timer 5]
20	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5B	[action in contradiction with the current timer state]
21	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.6	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.6	[deactivate timer 6]
24	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6B	[action in contradiction with the current timer state]
25	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.7	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.7	[deactivate timer 7]

ETSI

Step	Direction	MESSAGE / Action	Comments
28	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7B	[action in contradiction with the current timer state]
29	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.8	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.8	[deactivate timer 8]
32	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8B	[action in contradiction with the current timer state]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.1

Logically:

> Command details
>> Command number: 1
>> Command type: TIMER MANAGEMENT
>> Command qualifier: deactivate the Timer
> Device identities
>> Source device: UICC
>> Destination device: ME
> Timer identifier
>> Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1A

Logically:

> Command details
>> Command number: 1
>> Command type: TIMER MANAGEMENT
>> Command qualifier: Deactivate Timer
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Action in contradiction with the current timer state
> Timer identifier
>> Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	01									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1B

Logically:

> Command details

```
                Command number:        1
                Command type:          TIMER MANAGEMENT
                Command qualifier:     Deactivate Timer
        Device identities
                Source device:         ME
                Destination device:    UICC
        Result
                General Result:        Action in contradiction with the current timer state
Coding:
```

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.2

Logically:

```
        Command details
                Command number:        1
                Command type:          TIMER MANAGEMENT
                Command qualifier:     deactivate the Timer
        Device identities
                Source device:         UICC
                Destination device:    ME
        Timer identifier
                Identifier of timer:   2
```

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2A

Logically:

```
        Command details
                Command number:        1
                Command type:          TIMER MANAGEMENT
                Command qualifier:     Deactivate Timer
        Device identities
                Source device:         ME
                Destination device:    UICC
        Result
                General Result:        Action in contradiction with the current timer state
        Timer identifier
                Identifier of timer:   2
```

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	02									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2B

Logically:

```
        Command details
                Command number:        1
                Command type:          TIMER MANAGEMENT
                Command qualifier:     Deactivate Timer
        Device identities
                Source device:         ME
```

	Destination device:	UICC
Result		
	General Result:	Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND3: TIMER MANAGEMENT 1.5.3

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: deactivate the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 3

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	03										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3A

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: Deactivate Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state
    Timer identifier
        Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	03									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3B

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: Deactivate Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.4

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     deactivate the Timer
Device identities
        Source device:         UICC
        Destination device:    ME
Timer identifier
        Identifier of timer:   4
```

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	04										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4A

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     Deactivate Timer
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Action in contradiction with the current timer state
Timer identifier
        Identifier of timer:   4
```

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	04									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4B

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     Deactivate Timer
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Action in contradiction with the current timer state
```

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.5

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: deactivate the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 5

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	05										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5A

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: Deactivate Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state
    Timer identifier
        Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	05									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5B

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: Deactivate Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.6

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: deactivate the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 6

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	06										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6A

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: Deactivate Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state
Timer identifier
    Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	06									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6B

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: Deactivate Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.7

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: deactivate the Timer

Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 7

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	07										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7A

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: Deactivate Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state
Timer identifier
    Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	07									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7B

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: Deactivate Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.8

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: deactivate the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8A

Logically:

```
Command details
      Command number:        1
      Command type:          TIMER MANAGEMENT
      Command qualifier:     Deactivate Timer
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Action in contradiction with the current timer state
Timer identifier
      Identifier of timer:   8
```

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8B

Logically:

```
Command details
      Command number:        1
      Command type:          TIMER MANAGEMENT
      Command qualifier:     Deactivate Timer
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Action in contradiction with the current timer state
```

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

Expected Sequence 1.6 (TIMER MANAGEMENT, start 8 timers successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.1	[timer 1]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.1	[command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.2	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.2	[timer 2]
8	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.2	[command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.3	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.3	[timer 3]
12	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.3	[command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.4	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.4	[timer 4]
16	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.4	[command performed successfully]
17	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.5	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.5	[timer 5]
20	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.5	[command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.6	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.6	[timer 6]
24	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.6	[command performed successfully]
25	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.7	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.7	[timer 7]
28	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.7	[command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.8	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.8	[timer 8]
32	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.8	[command performed successfully]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.1

Logically:

    Command details
            Command number: 1
            Command type: TIMER MANAGEMENT
            Command qualifier: start the Timer
    Device identities
            Source device: UICC
            Destination device: ME
    Timer identifier
            Identifier of timer: 1
    Timer value
            Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.1

Logically:

    Command details
            Command number: 1
            Command type: TIMER MANAGEMENT
            Command qualifier: start the Timer
    Device identities
            Source device: ME
            Destination device: UICC
    Result
            General Result: Command performed successfully
    Timer identifier
            Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.2

Logically:

    Command details
            Command number: 1
            Command type: TIMER MANAGEMENT
            Command qualifier: start the Timer
    Device identities
            Source device: UICC
            Destination device: ME
    Timer identifier
            Identifier of timer: 2
    Timer value
            Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.2

Logically:

```
    Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
    Device identities
        Source device:         ME
        Destination device:    UICC
    Result
        General Result:        Command performed successfully
    Timer identifier
        Identifier of timer:   2
```

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	02									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.3

Logically:

```
    Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
    Device identities
        Source device:         UICC
        Destination device:    ME
    Timer identifier
        Identifier of timer:   3
    Timer value
        Value of timer:        5 s
```

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	03	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.3

Logically:

```
    Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
    Device identities
        Source device:         ME
        Destination device:    UICC
    Result
        General Result:        Command performed successfully
    Timer identifier
        Identifier of timer:   3
```

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	03									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.4

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 4
    Timer value
        Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	04	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.4

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Timer identifier
        Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	04									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.5

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 5
    Timer value
        Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	05	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.5

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Timer identifier
        Identifier of timer:   5
```

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	05									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.6

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
Device identities
        Source device:         UICC
        Destination device:    ME
Timer identifier
        Identifier of timer:   6
Timer value
        Value of timer:        5 s
```

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	06	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.6

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Timer identifier
        Identifier of timer:   6
```

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	06									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.7

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
Device identities
        Source device:         UICC
        Destination device:    ME
Timer identifier
        Identifier of timer:   7
Timer value
        Value of timer:        5 s
```

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	07	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.7

Logically:

```
Command details
        Command numbeò:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Timer identifier
        Identifier of timer:   7
```

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	07									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.8

Logically:

```
Command details
        Command number:        1
        Command type:          TIMER MANAGEMENT
        Command qualifier:     start the Timer
Device identities
        Source device:         UICC
        Destination device:    ME
Timer identifier
        Identifier of timer:   8
Timer value
        Value of timer:        5 s
```

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.8

Logically:

> Command details
>> Command number: 1
>> Command type: TIMER MANAGEMENT
>> Command qualifier: start the Timer
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully
> Timer identifier
>> Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	08									

27.22.4.21.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.6.

27.22.4.21.2 ENVELOPE TIMER EXPIRATION (normal)

27.22.4.21.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.21.2.2 Conformance requirement

The ME shall support the ENVELOPE (TIMER EXPIRATION) command as defined in the following technical specifications:

- 3GPP TS 31.111 clause 4.10, clause 7.4.1 and clause 7.4.2.

The ME shall support the TIMER MANAGEMENT as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.2.3 Test purpose

To verify that the ME shall pass the identifier of the timer that has expired and its value using the ENVELOPE (TIMER EXPIRATION) command, when a timer previously started in a TIMER MANAGEMENT proactive command expires.

27.22.4.21.2.4 Method of test

27.22.4.21.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The timer 1 is not started.

When the UICC is busy when the envelope TIMER EXPIRATION is sent, either the ME retries periodically to send the envelope, either it waits for a TERMINAL RESPONSE processed by the UICC with status '90 00'.

If the ME waits for a TR with status '90 00', the ME manufacturer shall specify how many TERMINAL RESPONSES with status '90 00' are expected before sending the TIMER EXPIRATION envelope.

27.22.4.21.2.4.2 Procedure

Expected Sequence 2.1 (TIMER EXPIRATION, pending proactive UICC command)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 2.1.1	[timer 1]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 2.1.1	[command performed successfully]
5	ME → UICC	ENVELOPE: TIMER EXPIRATION 2.1.1	
6	UICC → ME	PROACTIVE COMMAND PENDING: MORE TIME X.1(or an other USAT command tested before to ensure it is properly supported by the mobile).	[response to envelope is "91 xx"]
7	ME → UICC	FETCH	

PROACTIVE COMMAND: TIMER MANAGEMENT 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: UICC
        Destination device: ME
    Timer identifier
        Identifier of timer: 1
    Timer value
        Value of timer: 0 h 0 min 10 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	01					

TERMINAL RESPONSE: TIMER MANAGEMENT 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: TIMER MANAGEMENT
        Command qualifier: start the Timer
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Timer identifier
        Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

ENVELOPE: TIMER EXPIRATION 2.1.1

Logically:

    Device identities
        Source device: ME
        Destination device: UICC
    Timer identifier
        Timer 1
    Timer value
        Hour: '00'
        Minute: '00'
        Second: '10' $\pm$ 1 s

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

Expected Sequence 2.2A (TIMER EXPIRATION, UICC application toolkit busy)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 2.2.1	[timer 1]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 2.2.1	[command performed successfully]
5	ME → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1A	
6	UICC → ME	PROACTIVE UICC SESSION BUSY	[UICC is busy; response to the envelope = "93 00"]
...			[UICC is busy during 10 seconds, the ME retries the sending of the envelope until it is accepted]
7	ME → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1B	
8	UICC → ME	PROACTIVE UICC SESSION BUSY	[UICC is busy, response to the envelope = "93 00"]
9	ME → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1C	
10	UICC → ME	PROACTIVE UICC SESSION ENDED	[UICC is not busy]

Or:

Expected Sequence 2.2B (TIMER EXPIRATION, UICC application toolkit busy)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 2.2.1	[timer 1]
4	ME → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 2.2.1	[command performed successfully]
5	ME → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1A	
6	UICC → ME	RESPONSE TO THE ENVELOPE	[UICC is busy; response to the envelope = "93 00"] [UICC is busy during 10 sec, the ME may retry to send the envelope. After one (or several) answer(s) 93 00, the ME waits for a TERMINAL RESPONSE processed by the UICC with status "90 00"]
7	ME → UICC	STATUS	[UICC is not busy]
8	UICC → ME	Response to the STATUS command	[SW1/SW2=91 xx]
9	ME → UICC	PROACTIVE COMMAND PENDING	
10	UICC → ME	FETCH	
	UICC → ME	PROACTIVE COMMAND: e.g. MORE TIME 2.2.2	
11	ME → UICC	TERMINAL RESPONSE: e.g. TIMER MANAGEMENT 2.2.2	[command performed successfully]
12	UICC → ME		[SW1/SW2 = 90 00] Steps 7→12 shall be repeated (X-1) times if the ME manufacturers specifies that the ME waits for X TERMINAL RESPONSES with status 90 00 to send the TIMER EXPIRATION envelope.
13	ME → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1B	
14	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: TIMER MANAGEMENT 2.2.1

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: start the Timer
Device identities
    Source device: UICC
    Destination device: ME
Timer identifier
    Identifier of timer: 1
Timer value
    Value of timer: 0 h 0 min 30 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	03					

TERMINAL RESPONSE: TIMER MANAGEMENT 2.2.1

Logically:

Command details
    Command number: 1
    Command type: TIMER MANAGEMENT
    Command qualifier: start the Timer
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Timer identifier
    Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

ENVELOPE: TIMER EXPIRATION 2.2.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Timer identifier
    Timer 1
Timer value
    Hour: '00'
    Minute: '00'
    Second: '30' $\pm$ 1 s

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

ENVELOPE: TIMER EXPIRATION 2.2.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Timer identifier
    Timer 1
Timer value
    Hour: '00'
    Minute: '00'
    Second: $\geq$ timer in clause 2.2.1A

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

ENVELOPE: TIMER EXPIRATION 2.2.1C

Logically:

Device identities
    Source device: ME
    Destination device: UICC

Timer identifier
    Timer 1
Timer value
    Hour: '00'
    Minute: '00'
    Second: ≥ timer in 2.2.1B

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

PROACTIVE COMMAND: MORE TIME 2.2.2

Logically:

Command details
    Command number: 1
    Command type: MORE TIME
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 2.2.2

Logically:

Command details
    Command number: 1
    Command type: MORE TIME
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	02	00	82	02	82	81	83	01	00

27.22.4.21.2.5   Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.2B.

27.22.4.22   SET UP IDLE MODE TEXT

27.22.4.22.1   SET UP IDLE MODE TEXT (normal)

27.22.4.22.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.22.1.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 6.4.7 and clause 6.6.13.

Additionally the ME shall support the REFRESH proactive UICC facility as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.1, clause 6.4.7, clause 6.6.13, clause 6.11, clause 8.6, clause 8.7, clause 8.12, clause 9.4 and clause 10.

27.22.4.22.1.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text.

27.22.4.22.1.4 Method of test

27.22.4.22.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.1.4.2 Procedure

Expected Sequence 1.1 (SET UP IDLE MODE TEXT, display idle mode text)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	ME shall be in updated idle mode on the USS
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Idle Mode Text"

Coding:

BER-TLV:	D0	1A	81	03	01	28	00	82	02	81	82	8D
	0F	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74								

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP IDLE MODE TEXT
>> Command qualifier: RFU
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (SET UP IDLE MODE TEXT, replace idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.2.1	[Idle Mode Text]
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.2.1	[Idle Mode Text]
10	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.2.1	
11	UICC → ME	PROACTIVE UICC SESSION ENDED	
12	USER → ME	Select idle screen	Only if idle screen not already available
13	ME → USER	Display "Toolkit Test"	

PROACTIVE COMMAND: SETUP IDLE MODE TEXT 1.2.1

Logically:

> Command details
>> Command number: 1
>> Command type: SETUP IDLE MODE TEXT
>> Command qualifier: RFU
> Device identities
>> Source device: UICC
>> Destination device: ME
> Text String
>> Data coding scheme: unpacked, 8 bit data
>> Text: "Toolkit Test"

Coding:

BER-TLV:	D0	18	81	03	01	28	00	82	02	81	82	8D
	0D	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74										

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 1.3 (SET UP IDLE MODE TEXT, remove idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.3.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.3.1	[Remove idle mode text]
10	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.3.1	
11	UICC → ME	PROACTIVE UICC SESSION ENDED	
12	USER → ME	Select idle screen	Only if idle screen not already available
13	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	

PROACTIVE COMMAND: SETUP IDLE MODE TEXT 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SETUP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
        Text String: zero length TLV

Coding:

BER-TLV:	D0	0B	81	03	01	28	00	82	02	81	82	8D
	00											

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (SET UP IDLE MODE TEXT, competing information on ME display)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	[Command performed successfully]
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	USS → ME	SMS PP 1.4.1	[Display immediate SMS]
8	ME → USER	Display "Test Message"	
9	USER → ME	Clear display and select idle screen	
10	ME → USER	Display "Idle Mode Text"	
11	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.4.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
14	ME → USER	Display "Toolkit Test 1"	
15	USER → ME	Clear Message	
16	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.4.1	[Command performed successfully]
17	ME → USER	Display "Idle Mode Text"	
18	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.4.1	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.4.1	
21	ME → USER	Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s	
22	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.4.1	[Command performed successfully]
23	UICC → ME	PROACTIVE UICC SESSION ENDED	
24	ME → USER	Display "Idle Mode Text"	

SMS-PP 1.4.1

Logically:

SMS TPDU

TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the ME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	ME Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 1 Default meaning: ME specific
Alphabet	8 bit data
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	12
TP-UD	"Test Message"

Coding:

	04	04	91	21	43	7D	15	89	10	10	00	00
	00	00	0C	54	65	73	74	20	4D	65	73	73
	61	67	65									

PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

Command details		
Command number:	1	
Command type:	DISPLAY TEXT	
Command qualifier:	normal priority, wait for user to clear message	
Device identities		
Source device:	UICC	
Destination device:	Display	
Text String		
Data coding scheme:	unpacked, 8 bit data	
Text:	"Toolkit Test 1"	

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31								

TERMINAL RESPONSE: DISPLAY TEXT 1.4.1

Logically:

Command details	
Command number:	1
Command type:	DISPLAY TEXT
Command qualifier:	normal priority, wait for user to clear message
Device identities	
Source device:	ME
Destination device:	UICC

Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Earpiece
        Alpha identifier: "Dial Tone"
        TONe: Standard supervisory tones: dial tone
    Duration
        Time unit: Seconds
        Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	44	69	61	6C	20	54	6F	6E	65	8E	01
	01	84	02	01	05							

TERMINAL RESPONSE: PLAY TONE 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: PLAY TONE
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 1.5 (SET UP IDLE MODE TEXT, ME power cycled)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	[command performed successfully]
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	USER → ME	Power off ME	
8	ME ⇔ UICC	3G Session TERMINATION PROCEDURE	
9	USER → ME	Power on ME	
10	ME ⇔ UICC	3G Session ACTIVATION PROCEDURE	
11	ME ⇔ UICC	USIM INITIALIZATION	
12	USER → ME	Select idle screen	Only if idle screen not already available
13	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	

Expected Sequence 1.6 (SET UP IDLE MODE TEXT, REFRESH with USIM Initialization)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.6.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: REFRESH 1.6.1	[USIM Initialization]
10	ME ⇔ UICC	USIM INITIALIZATION	
11	USER → ME	Select idle screen	Only if idle screen not already available
12	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	
13	ME → UICC	TERMINAL RESPONSE: REFRESH 1.6.1A or TERMINAL RESPONSE: REFRESH 1.6.1B	[Command performed successfully] [Command performed successfully with additional files read]
14	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 1.6.1

Logically:

    Command details
          Command number: 1
          Command type: REFRESH
          Command qualifier: USIM Initialization
    Device identities
          Source device: UICC

Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	03	82	02	81	82

TERMINAL RESPONSE: REFRESH 1.6.1A

Logically:

```
Command details
      Command number:        1
      Command type:          REFRESH
      Command qualifier:     USIM Initialization
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 1.6.1B

Logically:

```
Command details
      Command number:        1
      Command type:          REFRESH
      Command qualifier:     USIM Initialization
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        REFRESH performed with additional EFs read
```

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	03

Expected Sequence 1.7 (SET UP IDLE MODE TEXT, large text string)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.7.1	[large text string]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.7.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.7.1	[command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "The SIM shall supply a text string, which shall be displayed by the ME as an idle mode text if the ME is able to do it. The presentation style is left as an implementation decision to the ME manufacturer. The idle mode text shall be displayed in a manner that ensures that ne"	[274 characters]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.7.1

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP IDLE MODE TEXT
>> Command qualifier: RFU
> Device identities
>> Source device: UICC
>> Destination device: ME
> Text String
>> Data coding scheme: packed, SMS default alphabet
>> Text: "The SIM shall supply a text string, which shall be displayed by the ME as an idle mode text if the ME is able to do it. The presentation style is left as an implementation decision to the ME manufacturer. The idle mode text shall be displayed in a manner that ensures that ne"

Coding:

BER-TLV:	D0	81	FD	81	03	01	28	00	82	02	81	82
	8D	81	F1	00	54	74	19	34	4D	36	41	73
	74	98	CD	06	CD	EB	70	38	3B	0F	0A	83
	E8	65	3C	1D	34	A7	CB	D3	EE	33	0B	74
	47	A7	C7	68	D0	1C	1D	66	B3	41	E2	32
	88	9C	9E	C3	D9	E1	7C	99	0C	12	E7	41
	74	74	19	D4	2C	82	C2	73	50	D8	0D	4A
	93	D9	65	50	FB	4D	2E	83	E8	65	3C	1D
	94	36	83	E8	E8	32	A8	59	04	A5	E7	A0
	B0	98	5D	06	D1	DF	20	F2	1B	94	A6	BB
	A8	E8	32	08	2E	2F	CF	CB	6E	7A	98	9E
	7E	BB	41	73	7A	9E	5D	06	A5	E7	20	76
	D9	4C	07	85	E7	A0	B0	1B	94	6E	C3	D9
	E5	76	D9	4D	0F	D3	D3	6F	37	88	5C	1E
	A7	E7	E9	B7	1B	44	7F	83	E8	E8	32	A8
	59	04	B5	C3	EE	BA	39	3C	A6	D7	E5	65
	B9	0B	44	45	97	41	69	32	BB	0C	6A	BF
	C9	65	10	BD	8C	A7	83	E6	E8	30	9B	0D
	12	97	41	E4	F4	1C	CE	0E	E7	CB	64	50
	DA	0D	0A	83	DA	61	B7	BB	2C	07	D1	D1
	61	3A	A8	EC	9E	D7	E5	E5	39	88	8E	0E
	D3	41	EE	32								

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.7.1

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command q ualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

27.22.4.22.2   SET UP IDLE MODE TEXT (Icon support)

27.22.4.22.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.22.2.2   Conformance requirement

27.22.4.22.2.3   Test purpose

To verify that the ME text and / or icon passed to the ME is displayed by the ME as an idle mode text.

To verify that the icon identifier provided with the text string can replace the text string or accompany it.

To verify that if both an alpha identifier or text string, and an icon are provided with a proactive command, and both are requested to be displayed, but the ME is not able to display both together on the screen, then the alpha identifier or text string takes precedence over the icon.

To verify that if the UICC provides an icon identifier with a proactive command, then the ME shall inform the UICC if the icon could not be displayed by sending the general result "Command performed successfully, but requested icon could not be displayed".

To verify that if the ME receives an icon identifier with a proactive command, and either an empty, or no alpha identifier / text string is given by the UICC, than the ME shall reject the command with general result "Command data not understood by ME".

27.22.4.22.2.4   Method of test

27.22.4.22.2.4.1   Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator.

27.22.4.22.2.4.2   Procedure

Expected Sequence 2.1A (SET UP IDLE MODE TEXT, Icon is self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1.1	[Icon is self-explanatory]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1A	[command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display the icon	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String: "Idle text"
    Icon identifier
        Icon qualifier: icon is self-explanatory
        Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	00	01									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1A

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 2.1B (SET UP IDLE MODE TEXT, Icon is self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1.1	[Icon is self-explanatory]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle text" without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1B

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04

Expected Sequence 2.2A (SET UP IDLE MODE TEXT, Icon is not self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2.1	[Icon is not self-explanatory]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1A	[command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display icon #1 and "Idle text"	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
        Text String: "Idle text"
    Icon identifier
        Icon qualifier: icon is not self-explanatory
        Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	01	01									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1A

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 2.2B (SET UP IDLE MODE TEXT, Icon is not self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2.1	[Icon is not self-explanatory]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1B	[Command performed successfully, but requested icon could not be displayed]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle text" without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1B

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04

Expected Sequence 2.3A (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	[Icon is self-explanatory]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A	[command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display the icon	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME

	Text String:	"Idle text"
Icon identifier		
	Icon qualifier:	icon is self-explanatory
	Icon identifier:	<record 2 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	00	02									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 2.3B (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	[Icon is self-explanatory]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1B	[requested icon could not be displayed]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display 'Idle text' without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1B

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04

Expected Sequence 2.4 (SET UP IDLE MODE TEXT, Icon is not self-explanatory, empty text string)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.4.1	[Icon is not self-explanatory, empty text string]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.4.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.4.1	
5	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.4.1

Logically:

```
Command details
    Command number:         1
    Command type:           SET UP IDLE MODE TEXT
    Command qualifier:      RFU
Device identities
    Source device:          UICC
    Destination device:     ME
Text string
    Contents:               null data object
Icon identifier
    Icon qualifier:         icon is not self-explanatory
    Icon identifier:        <record 1 in EF IMG>
```

Coding:

BER-TLV:	D0	0F	81	03	01	28	00	82	02	81	82	8D
	00	9E	02	01	01							

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.4.1

Logically:

```
Command details
    Command number:         1
    Command type:           SET UP IDLE MODE TEXT
    Command qualifier:      RFU
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command data not understood by ME
```

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	32

27.22.4.22.2.5   Test requirement

The ME shall operate in the manner defined in expected sequences 2.1A to 2.4.

27.22.4.22.3   SET UP IDLE MODE TEXT (UCS2 support)

27.22.4.22.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.22.3.2   Conformance requirement

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.22.3.3   Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.3.4   Method of test

27.22.4.22.3.4.1   Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator..

27.22.4.22.3.4.2   Procedure

Expected Sequence 3.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 3.1.1	["Hello" in Russian]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 3.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 3.1.1	
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display " ЗДРАВСТВУЙТЕ"	["Hello" in Russian]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 3.1.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP IDLE MODE TEXT
        Command qualifier:     RFU
    Device identities
        Source device:         UICC
        Destination device:    ME
    Text String
        Data coding scheme:    UCS2 (16bit)
        Text:                  "ЗДРАВСТВУЙТЕ"
```

Coding:

BER-TLV:	D0	24	81	03	01	28	00	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15										

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 3.1.1

Logically:

<pre>
Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully
</pre>

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.22.4 SET UP IDLE MODE TEXT (support of Text Attribute)

27.22.4.22.4.1 SET UP IDLE MODE TEXT (support of Text Attribute – Left Alignment)

27.22.4.22.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.1.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.1.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the left alignment text attribute configuration.

27.22.4.22.4.1.4 Method of test

27.22.4.22.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.1.4.2 Procedure

Expected Sequence 4.1 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Left Alignment)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.1.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.1.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with left alignment]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.1.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/15, no alignment change will take place]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
      Text: "Idle Mode Text 1"
    Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
      Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.2

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.22.4.2 SET UP IDLE MODE TEXT (support of Text Attribute – Center Alignment)

27.22.4.22.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.2.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.2.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the center alignment text attribute configuration.

27.22.4.22.4.2.4 Method of test

27.22.4.22.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.2.4.2 Procedure

Expected Sequence 4.2 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Center Alignment)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.2.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.2.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with center alignment]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.2.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.2.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/15, no alignment change will take place]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
      Text: "Idle Mode Text 1"
    Text Attribute
              Formatting position: 0
              Formatting length: 16
              Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
              Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	01	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.2

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.2.1

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.22.4.3 SET UP IDLE MODE TEXT (support of Text Attribute – Right Alignment)

27.22.4.22.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.3.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.3.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the right alignment text attribute configuration.

27.22.4.22.4.3.4   Method of test

27.22.4.22.4.3.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.3.4.2   Procedure

Expected Sequence 4.3 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Right Alignment)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.3.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.3.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with right alignment]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.3.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/15, no alignment change will take place]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
      Text: "Idle Mode Text 1"
    Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	02	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.2

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.3.1

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.22.4.4 SET UP IDLE MODE TEXT (support of Text Attribute – Large Font Size)

27.22.4.22.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.4.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.4.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the large font size text attribute configuration.

27.22.4.22.4.4.4 Method of test

27.22.4.22.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.4.4.2 Procedure

Expected Sequence 4.4 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Large Font Size)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.4.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with large font size]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.4.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Text is displayed with normal font size]
15	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	[Idle Mode Text]
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
18	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	USER → ME	Select idle screen	Only if idle screen not already available
21	ME → USER	Display "Idle Mode Text"	[Text is displayed with large font size]
22	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.4.3	[Idle Mode Text]
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.3	
25	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1	[Command performed successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select idle screen	Only if idle screen not already available
28	ME → USER	Display "Idle Mode Text"	[Text is displayed with normal font size]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC

Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 1"
Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	04	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.2

Logically:

Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 2"
Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.3

Logically:

Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
Device identities
        Source device: UICC
        Destination device: ME
Text String
        Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.22.4.5 SET UP IDLE MODE TEXT (support of Text Attribute – Small Font Size)

27.22.4.22.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.5.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.5.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the small font size text attribute configuration.

27.22.4.22.4.5.4 Method of test

27.22.4.22.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.5.4.2 Procedure

Expected Sequence 4.5 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Small Font Size)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.5.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with small font size]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.5.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Text is displayed with normal font size]
15	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	[Idle Mode Text]
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
18	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	USER → ME	Select idle screen	Only if idle screen not already available
21	ME → USER	Display "Idle Mode Text"	[Text is displayed with small font size]
22	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.5.3	[Idle Mode Text]
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.3	
25	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1	[Command performed successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select idle screen	Only if idle screen not already available
28	ME → USER	Display "Idle Mode Text"	[Text is displayed with normal font size]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.1

Logically:

```
    Command details
            Command number:        1
            Command type:          SET UP IDLE MODE TEXT
            Command qualifier:     RFU
    Device identities
            Source device:         UICC
```

Destination device: ME
Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 1"
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	08	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: ME
Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"
Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.3

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: ME
Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.22.4.6   SET UP IDLE MODE TEXT (support of Text Attribute – Bold On)

27.22.4.22.4.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.22.4.6.2   Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.6.3   Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the bold text attribute configuration.

27.22.4.22.4.6.4   Method of test

27.22.4.22.4.6.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.6.4.2   Procedure

Expected Sequence 4.6 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Bold On)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.6.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with bold on]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.6.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Text is displayed with bold off]
15	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	[Idle Mode Text]
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
18	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	USER → ME	Select idle screen	Only if idle screen not already available
21	ME → USER	Display "Idle Mode Text"	[Text is displayed with bold on]
22	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.6.3	[Idle Mode Text]
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.3	
25	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1	[Command performed successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select idle screen	Only if idle screen not already available
28	ME → USER	Display "Idle Mode Text"	[Text is displayed with bold off]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME

Text String
     Data coding scheme: unpacked, 8 bit data
       Text: "Idle Mode Text 1"
Text Attribute
                    Formatting position: 0
                    Formatting length: 16
                    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off,
                    Strikethrough Off
                    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	10	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.2

Logically:

Command details
       Command number: 1
       Command type: SET UP IDLE MODE TEXT
       Command qualifier: RFU
Device identities
       Source device: UICC
       Destination device: ME
Text String
       Data coding scheme: unpacked, 8 bit data
     Text: "Idle Mode Text 2"
Text Attribute
                    Formatting position: 0
                    Formatting length: 16
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                    Strikethrough Off
                    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.3

Logically:

Command details
       Command number: 1
       Command type: SET UP IDLE MODE TEXT
       Command qualifier: RFU
Device identities
       Source device: UICC
       Destination device: ME
Text String
       Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.22.4.7 SET UP IDLE MODE TEXT (support of Text Attribute – Italic On)

27.22.4.22.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.7.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.7.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the italic text attribute configuration.

27.22.4.22.4.7.4 Method of test

27.22.4.22.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.7.4.2 Procedure

Expected Sequence 4.7 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Italic On)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.7.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with italic on]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.7.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Text is displayed with italic off]
15	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	[Idle Mode Text]
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
18	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	USER → ME	Select idle screen	Only if idle screen not already available
21	ME → USER	Display "Idle Mode Text"	[Text is displayed with italic on]
22	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.7.3	[Idle Mode Text]
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.3	
25	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1	[Command performed successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select idle screen	Only if idle screen not already available
28	ME → USER	Display "Idle Mode Text"	[Text is displayed with italic off]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.1

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME

Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 1"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	20	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.2

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 2"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.3

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.22.4.8 SET UP IDLE MODE TEXT (support of Text Attribute – Underline On)

27.22.4.22.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.8.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.8.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the underline text attribute configuration.

27.22.4.22.4.8.4 Method of test

27.22.4.22.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.8.4.2 Procedure

Expected Sequence 4.8 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Underline On)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.8.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with underline on]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.8.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Text is displayed with underline off]
15	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	[Idle Mode Text]
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
18	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	USER → ME	Select idle screen	Only if idle screen not already available
21	ME → USER	Display "Idle Mode Text"	[Text is displayed with underline on]
22	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.8.3	[Idle Mode Text]
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.3	
25	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1	[Command performed successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select idle screen	Only if idle screen not already available
28	ME → USER	Display "Idle Mode Text"	[Text is displayed with underline off]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.1

Logically:

 Command details
   Command number: 1
   Command type: SET UP IDLE MODE TEXT
   Command qualifier: RFU
 Device identities
   Source device: UICC

      Destination device: ME
  Text String
      Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 1"
  Text Attribute
          Formatting position: 0
          Formatting length: 16
          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
          Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	40	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.2

Logically:

  Command details
      Command number: 1
      Command type: SET UP IDLE MODE TEXT
      Command qualifier: RFU
  Device identities
      Source device: UICC
      Destination device: ME
  Text String
      Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 2"
  Text Attribute
          Formatting position: 0
          Formatting length: 16
          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
          Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.3

Logically:

  Command details
      Command number: 1
      Command type: SET UP IDLE MODE TEXT
      Command qualifier: RFU
  Device identities
      Source device: UICC
      Destination device: ME
  Text String
      Data coding scheme: unpacked, 8 bit data
  Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1

Logically:

> Command details
>> Command number: 1
>> Command type: SET UP IDLE MODE TEXT
>> Command qualifier: RFU
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.8.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.22.4.9   SET UP IDLE MODE TEXT (support of Text Attribute – Strikethrough On)

27.22.4.22.4.9.1   Definition and applicability

See clause 3.2.2.

27.22.4.22.4.9.2   Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.9.3   Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the strikethrough text attribute configuration.

27.22.4.22.4.9.4   Method of test

27.22.4.22.4.9.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.9.4.2   Procedure

Expected Sequence 4.9 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Strikethrough On)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with strikethrough on]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Text is displayed with strikethrough off]
15	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	[Idle Mode Text]
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
18	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	USER → ME	Select idle screen	Only if idle screen not already available
21	ME → USER	Display "Idle Mode Text"	[Text is displayed with strikethrough on]
22	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.3	[Idle Mode Text]
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.3	
25	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	[Command performed successfully]
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	Select idle screen	Only if idle screen not already available
28	ME → USER	Display "Idle Mode Text"	[Text is displayed with strikethrough off]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU
Device identities
Source device: UICC

        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
      Text: "Idle Mode Text 1"
    Text Attribute
               Formatting position: 0
               Formatting length: 16
               Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
        Strikethrough On
               Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	80	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.2

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
      Text: "Idle Mode Text 2"
    Text Attribute
               Formatting position: 0
               Formatting length: 16
               Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
        Strikethrough Off
               Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.3

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
    Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.22.4.10 SET UP IDLE MODE TEXT (support of Text Attribute – Foreground and Background Colour)

27.22.4.22.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.10.2 Conformance requirement

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.10.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the foreground and background colour text attribute configuration.

27.22.4.22.4.10.4 Method of test

27.22.4.22.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.10.4.2 Procedure

Expected Sequence 4.10 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Foreground and Background Colour)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.10.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.10.1	[Command performed successfully]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	[Text is displayed with foreground and background colour according to the text attribute configuration]
8	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.10.2	[Idle Mode Text]
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.2	
11	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.10.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	USER → ME	Select idle screen	Only if idle screen not already available
14	ME → USER	Display "Idle Mode Text"	[Text is displayed with ME"s default foreground and background colour]

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP IDLE MODE TEXT
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME
    Text String
        Data coding scheme: unpacked, 8 bit data
      Text: "Idle Mode Text 1"
    Text Attribute
            Formatting position: 0
            Formatting length: 16
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.2

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME
Text String
    Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.10.1

Logically:

Command details
    Command number: 1
    Command type: SET UP IDLE MODE TEXT
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.23   RUN AT COMMAND

27.22.4.23.1   RUN AT COMMAND (normal)

27.22.4.23.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.1.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31 and clause 8.41.

- 3GPP TS 27.007 [18].

27.22.4.23.1.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.1.4   Method of test

27.22.4.23.1.4.1   Initial conditions

The ME is connected to the USIM Simulator. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.1.4.2   Procedure

Expected Sequence 1.1(RUN AT COMMAND, no alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.1.1	[no alpha identifier, request IMSI]
4	ME (→ User)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

PROACTIVE UICC COMMAND: RUN AT COMMAND 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    AT Command
        AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	12	81	03	01	34	00	82	02	81	82	A8
	07	41	54	2B	43	49	4D	49				

TERMINAL RESPONSE: RUN AT COMMAND 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    AT Response
        AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

Expected Sequence 1.2 (RUN AT COMMAND, null data alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.2.1	[null data alpha identifier, request IMSI]
4	ME	The ME should not give any information to user on the fact that the ME is performing an AT command	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

PROACTIVE UICC COMMAND: RUN AT COMMAND 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier   null data object
    AT Command
        AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	14	81	03	01	34	00	82	02	81	82	85
	00	A8	07	41	54	2B	43	49	4D	49		

Expected Sequence 1.3 (RUN AT COMMAND, alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.3.1	[alpha identifier, request IMSI]
4	ME → USER	Display "Run AT Command"	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

PROACTIVE UICC COMMAND: RUN AT COMMAND 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"

Device identities
  Source device: UICC
  Destination device: ME
Alpha Identifier
  Alpha Identifier   "Run AT Command"
AT Command
  AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0E	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	A8	07	41	54	2B	43	49	4D	49

27.22.4.23.1.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.23.2   RUN AT COMMAND (Icon support)

27.22.4.23.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.2.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31 and clause 8.41.

- 3GPP TS 27.007 [18].

27.22.4.23.2.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

In addition to verify that if an icon is provided by the UICC, the icon indicated in the command may be used by the ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

27.22.4.23.2.4   Method of test

27.22.4.23.2.4.1   Initial conditions

The ME is connected to the USIM Simulator. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

The ME screen shall be in its normal stand-by display.

27.22.4.23.2.4.2 Procedure

Expected Sequence 2.1A (RUN AT COMMAND, basic icon self explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	[BASIC-ICON, self-explanatory, request IMSI]
4	ME → USER	Display BASIC ICON without the alpha identifier	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

PROACTIVE COMMAND: RUN AT COMMAND 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier
        Alpha identifier: "Basic Icon"
    AT Command
        AT Command string: "AT+CIMI"
    Icon identifier:
        Icon qualifier: icon is self-explanatory
        Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0A	42	61	73	69	63	20	49	63	6F	6E	A8
	07	41	54	2B	43	49	4D	49	9E	02	00	01

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    AT Response
        AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

Expected Sequence 2.1B (RUN AT COMMAND, basic icon self explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	[BASIC-ICON, self-explanatory, request IMSI]
4	ME → USER	Display 'Basic Icon' without the BASIC-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully, but requested icon could not be displayed
    AT Response
        AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	04
	A9	08	08	09	10	10	32	54	76	98		

Expected Sequence 2.2A (RUN AT COMMAND, colour icon self explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	[COLOUR-ICON, self-explanatory, request IMSI]
4	ME → USER	Display COLOUR-ICON without the alpha identifier	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

PROACTIVE COMMAND: RUN AT COMMAND 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC

	Destination device:	ME
Alpha Identifier		
	Alpha identifier:	"Colour Icon"
AT Command		
	AT Command string:	"AT+CIMI"
Icon identifier:		
	Icon qualifier:	icon is self-explanatory
	Icon identifier:	record 2 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	A8
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	A8	07	41	54	2B	43	49	4D	49	9E	02	00
	02											

Expected Sequence 2.2B (RUN AT COMMAND, colour icon self explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	[COLOUR-ICON, self-explanatory, request IMSI]
4	ME → USER	Display 'Colour Icon' without the COLOUR-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.3A (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	[BASIC-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Basic Icon" and BASIC-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

PROACTIVE COMMAND: RUN AT COMMAND 2.3.1

Logically:

Command details		
	Command number:	1
	Command type:	RUN AT COMMAND
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	ME
Alpha Identifier		
	Alpha identifier:	"Basic Icon"

AT Command
    AT Command string: "AT+CIMI"
Icon identifier
    Icon qualifier: icon is non self-explanatory
    Icon identifier: record 1 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0A	42	61	73	69	63	20	49	63	6F	6E	A8
	07	41	54	2B	43	49	4D	49	9E	02	01	01

Expected Sequence 2.3B (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	[BASIC-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Basic Icon" without BASIC-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.4A (RUN AT COMMAND, colour icon non self-explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	[COLOUR-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Colour Icon" and COLOUR-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

PROACTIVE COMMAND: RUN AT COMMAND 2.4.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier
        Alpha identifier: "Colour Icon"
    AT Command
        AT Command string: "AT+CIMI"
    Icon identifier:
        Icon qualifier: icon is self-explanatory
        Icon identifier: record 2 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	A8	07	41	54	2B	43	49	4D	49	9E	02	01
	02											

Expected Sequence 2.4B (RUN AT COMMAND, colour icon non self-explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	[COLOUR-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Colour Icon" without COLOUR-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.5 (RUN AT COMMAND, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.5.1	[BASIC-ICON, non self-explanatory]
4	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.5.1	[Command data not understood by ME]

PROACTIVE COMMAND: RUN AT COMMAND 2.5.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    AT Command
        AT Command string: "AT+CIMI"
    Icon identifier
        Icon qualifier: icon is non self-explanatory
        Icon identifier: record 1 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	16	81	03	01	34	00	82	02	81	82	A8
	07	41	54	2B	43	49	4D	49	9E	02	01	01

TERMINAL RESPONSE: RUN AT COMMAND 2.5.1

Logically:

Command details

    Command number: 1

    Command type: RUN AT COMMAND

    Command qualifier: "00"

Device identities

    Source device: UICC

    Destination device: ME

Result

    General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	32

27.22.4.23.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.5.

27.22.4.23.3 RUN AT COMMAND (support of Text Attribute)

27.22.4.23.3.1 RUN AT COMMAND (support of Text Attribute – Left Alignment)

27.22.4.23.3.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.1.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.1.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with left alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.1.4 Method of test

27.22.4.23.3.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.1.4.2   Procedure

Expected Sequence 3.1(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.1.1	[alpha identifier is displayed with left alignment, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.1.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.1.2	[Message shall be formatted without left alignment, request IMSI. Remark: If left alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.1.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier
        Alpha Identifier   "Run AT Command 2"
    AT Command
        AT Command string: "AT+CIMI"
    Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.1.2

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier
        Alpha Identifier   "Run AT Command 2"
    AT Command
    AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    AT Response
        AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.23.3.2   RUN AT COMMAND (support of Text Attribute – Center Alignment)

27.22.4.23.3.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.3.2.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.2.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with center alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.2.4   Method of test

27.22.4.23.3.2.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.2.4.2   Procedure

Expected Sequence 3.2(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.2.1	[alpha identifier is displayed with center alignment, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.2.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.2.2	[Message shall be formatted without center alignment, request IMSI. Remark: If center alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.2.1

Logically:

    Command details
        Command number: 1

	Command type:	RUN AT COMMAND
	Command qualifier:	"00"

Device identities
      Source device: UICC
      Destination device: ME
Alpha Identifier
      Alpha Identifier   "Run AT Command 2"
AT Command
    AT Command string: "AT+CIMI"
Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	01	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.2.2

Logically:

Command details
      Command number: 1
      Command type: RUN AT COMMAND
      Command qualifier: "00"
Device identities
      Source device: UICC
      Destination device: ME
Alpha Identifier
      Alpha Identifier   "Run AT Command 2"
AT Command
      AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.2.1

Logically:

Command details
      Command number: 1
      Command type: RUN AT COMMAND
      Command qualifier: "00"
Device identities
      Source device: ME
      Destination device: UICC
Result
      General Result: Command performed successfully
AT Response
      AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.2.

27.22.4.23.3.3   RUN AT COMMAND (support of Text Attribute – Right Alignment)

27.22.4.23.3.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.3.3.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.3.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with right alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.3.4   Method of test

27.22.4.23.3.3.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.3.4.2   Procedure

Expected Sequence 3.3(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.3.1	[alpha identifier is displayed with right alignment, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.3.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.3.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.3.2	[Message shall be formatted without right alignment, request IMSI. Remark: If right alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.3.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.3.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier
        Alpha Identifier   "Run AT Command 2"
    AT Command
        AT Command string: "AT+CIMI"
    Text Attribute
                Formatting position: 0
                Formatting length: 16
                Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	02	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.3.2

Logically:

> Command details
>> Command number: 1
>> Command type: RUN AT COMMAND
>> Command qualifier: "00"
> Device identities
>> Source device: UICC
>> Destination device: ME
> Alpha Identifier
>> Alpha Identifier "Run AT Command 2"
> AT Command
> AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.3.1

Logically:

> Command details
>> Command number: 1
>> Command type: RUN AT COMMAND
>> Command qualifier: "00"
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully
> AT Response
>> AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.3.

27.22.4.23.3.4 RUN AT COMMAND (support of Text Attribute – Large Font Size)

27.22.4.23.3.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.4.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.4.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with large font size as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.4.4   Method of test

27.22.4.23.3.4.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.4.4.2   Procedure

Expected Sequence 3.4(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.1	[alpha identifier is displayed with large font size, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.2	[alpha identifier is displayed with normal font size, request IMSI]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.1	[alpha identifier is displayed with large font size, request IMSI]
16	ME (→ USER)	The ME may give information to the user concerning what is happening	
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.3	[alpha identifier is displayed with normal font size, request IMSI]
22	ME (→ USER)	The ME may give information to the user concerning what is happening	
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND

      Command qualifier: "00"
Device identities
      Source device: UICC
      Destination device: ME
Alpha Identifier
      Alpha Identifier   "Run AT Command 1"
AT Command
      AT Command string: "AT+CIMI"
Text Attribute
              Formatting position: 0
              Formatting length: 16
              Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off,
              Strikethrough Off
              Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	04	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.2

Logically:

    Command details
      Command number: 1
      Command type: RUN AT COMMAND
      Command qualifier: "00"
    Device identities
      Source device: UICC
      Destination device: ME
    Alpha Identifier
      Alpha Identifier   "Run AT Command 2"
    AT Command
      AT Command string: "AT+CIMI"
    Text Attribute
               Formatting position: 0
              Formatting length: 16
              Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
              Strikethrough Off
              Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.3

Logically:

    Command details
      Command number: 1
      Command type: RUN AT COMMAND
      Command qualifier: "00"
    Device identities
      Source device: UICC
      Destination device: ME

Alpha Identifier
    Alpha Identifier   "Run AT Command 3"
AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.4.1

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.4.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.4.

27.22.4.23.3.5   RUN AT COMMAND (support of Text Attribute – Small Font Size)

27.22.4.23.3.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.3.5.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.5.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with small font size as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.5.4   Method of test

27.22.4.23.3.5.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.5.4.2　　　Procedure

Expected Sequence 3.5(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.1	[alpha identifier is displayed with small font size, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.2	[alpha identifier is displayed with normal font size, request IMSI]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.1	[alpha identifier is displayed with small font size, request IMSI]
16	ME (→ USER)	The ME may give information to the user concerning what is happening	
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.3	[alpha identifier is displayed with normal font size, request IMSI]
22	ME (→ USER)	The ME may give information to the user concerning what is happening	
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.1

Logically:

    Command details
        Command number:　　　1
        Command type:　　　　RUN AT COMMAND

        Command qualifier: "00"
Device identities
        Source device: UICC
        Destination device: ME
Alpha Identifier
        Alpha Identifier   "Run AT Command 1"
AT Command
        AT Command string: "AT+CIMI"
Text Attribute
                    Formatting position: 0
                    Formatting length: 16
                    Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off,
                    Strikethrough Off
                    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	08	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.2

Logically:

    Command details
            Command number: 1
            Command type: RUN AT COMMAND
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: ME
    Alpha Identifier
            Alpha Identifier   "Run AT Command 2"
    AT Command
            AT Command string: "AT+CIMI"
    Text Attribute
                        Formatting position: 0
                        Formatting length: 16
                        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                        Strikethrough Off
                        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.3

Logically:

    Command details
            Command number: 1
            Command type: RUN AT COMMAND
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: ME

Alpha Identifier
    Alpha Identifier   "Run AT Command 3"
AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.5.1

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.5.

27.22.4.23.3.6   RUN AT COMMAND (support of Text Attribute – Bold On)

27.22.4.23.3.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.3.6.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.6.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with bold text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.6.4   Method of test

27.22.4.23.3.6.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.6.4.2   Procedure

Expected Sequence 3.6(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.1	[alpha identifier is displayed with bold on, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.2	[alpha identifier is displayed with bold off, request IMSI]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.1	[alpha identifier is displayed with bold on, request IMSI]
16	ME (→ USER)	The ME may give information to the user concerning what is happening	
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.3	[alpha identifier is displayed with bold off, request IMSI]
22	ME (→ USER)	The ME may give information to the user concerning what is happening	
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.1

Logically:

   Command details
      Command number: 1
      Command type: RUN AT COMMAND

Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier
    Alpha Identifier "Run AT Command 1"
AT Command
    AT Command string: "AT+CIMI"
Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	10	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.2

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier
    Alpha Identifier "Run AT Command 2"
AT Command
    AT Command string: "AT+CIMI"
Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.3

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME

Alpha Identifier
    Alpha Identifier   "Run AT Command 3"
AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.6.1

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.6.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.6.

27.22.4.23.3.7   RUN AT COMMAND (support of Text Attribute – Italic On)

27.22.4.23.3.7.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.3.7.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.7.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with italic text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.7.4   Method of test

27.22.4.23.3.7.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.7.4.2 Procedure

Expected Sequence 3.7(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.1	[alpha identifier is displayed with italic on, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.2	[alpha identifier is displayed with italic off, request IMSI]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.1	[alpha identifier is displayed with italic on, request IMSI]
16	ME (→ USER)	The ME may give information to the user concerning what is happening	
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.3	[alpha identifier is displayed with italic off, request IMSI]
22	ME (→ USER)	The ME may give information to the user concerning what is happening	
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND

      Command qualifier: "00"
Device identities
      Source device: UICC
      Destination device: ME
Alpha Identifier
      Alpha Identifier   "Run AT Command 1"
AT Command
      AT Command string: "AT+CIMI"
Text Attribute
            Formatting position: 0
            Formatting length: 16
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	10	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.2

Logically:

   Command details
      Command number: 1
      Command type: RUN AT COMMAND
      Command qualifier: "00"
   Device identities
      Source device: UICC
      Destination device: ME
   Alpha Identifier
      Alpha Identifier   "Run AT Command 2"
   AT Command
      AT Command string: "AT+CIMI"
   Text Attribute
            Formatting position: 0
            Formatting length: 16
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.3

Logically:

   Command details
      Command number: 1
      Command type: RUN AT COMMAND
      Command qualifier: "00"
   Device identities
      Source device: UICC
      Destination device: ME

Alpha Identifier
    Alpha Identifier   "Run AT Command 3"
AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.7.1

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.7.

27.22.4.23.3.8 RUN AT COMMAND (support of Text Attribute – Underline On)

27.22.4.23.3.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.8.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.8.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with underline text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.8.4   Method of test

27.22.4.23.3.8.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.8.4.2 Procedure

Expected Sequence 3.8(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.1	[alpha identifier is displayed with underline on, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.2	[alpha identifier is displayed with underline off, request IMSI]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.1	[alpha identifier is displayed with underline on, request IMSI]
16	ME (→ USER)	The ME may give information to the user concerning what is happening	
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.3	[alpha identifier is displayed with underline off, request IMSI]
22	ME (→ USER)	The ME may give information to the user concerning what is happening	
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.1

Logically:

 Command details
  Command number: 1
  Command type: RUN AT COMMAND

Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier
    Alpha Identifier "Run AT Command 1"
AT Command
    AT Command string: "AT+CIMI"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On,
    Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	40	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.2

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier
    Alpha Identifier "Run AT Command 2"
AT Command
    AT Command string: "AT+CIMI"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
    Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.3

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME

Alpha Identifier
    Alpha Identifier   "Run AT Command 3"
AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
10	52	75	6E	20	41	54	20	43	6F	6D	6D
61	6E	64	20	33	A8	07	41	54	2B	43	49
4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.8.1

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.8.

27.22.4.23.3.9 RUN AT COMMAND (support of Text Attribute – Strikethrough On)

27.22.4.23.3.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.9.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.9.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with strikethrough text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.9.4   Method of test

27.22.4.23.3.9.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.9.4.2 Procedure

Expected Sequence 3.9(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.1	[alpha identifier is displayed with strikethrough on, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.2	[alpha identifier is displayed with strikethrough off, request IMSI]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.1	[alpha identifier is displayed with strikethrough on, request IMSI]
16	ME (→ USER)	The ME may give information to the user concerning what is happening	
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.3	[alpha identifier is displayed with strikethrough off, request IMSI]
22	ME (→ USER)	The ME may give information to the user concerning what is happening	
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.1

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND

Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier
    Alpha Identifier   "Run AT Command 1"
AT Command
    AT Command string: "AT+CIMI"
Text Attribute
    Formatting position: 0
    Formatting length: 16
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	80	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.2

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier
        Alpha Identifier   "Run AT Command 2"
    AT Command
        AT Command string: "AT+CIMI"
    Text Attribute
        Formatting position: 0
        Formatting length: 16
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.3

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME

Alpha Identifier
    Alpha Identifier   "Run AT Command 3"
AT Command
    AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.9.1

Logically:

Command details
    Command number: 1
    Command type: RUN AT COMMAND
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.9.

27.22.4.23.3.10   RUN AT COMMAND (support of Text Attribute – Foreground and Background Colour)

27.22.4.23.3.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.23.3.10.2   Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.10.3   Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with foreground and background colour text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.10.4   Method of test

27.22.4.23.3.10.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.10.4.2   Procedure

Expected Sequence 3.10(RUN AT COMMAND, no alpha identifier presented, request IMSI, Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.10.1	[alpha identifier is displayed with foreground and background colour according to the text attribute configuration, request IMSI]
4	ME (→ USER)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.10.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.10.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.10.2	[alpha identifier is displayed with ME"s default foreground and background colour, request IMSI]
10	ME (→ USER)	The ME may give information to the user concerning what is happening	
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.10.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.10.1

Logically:

```
Command details
      Command number:       1
      Command type:         RUN AT COMMAND
      Command qualifier:    "00"
Device identities
      Source device:        UICC
      Destination device:   ME
Alpha Identifier
      Alpha Identifier      "Run AT Command 1"
AT Command
      AT Command string:  "AT+CIMI"
Text Attribute
```

Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	49
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.10.2

Logically:

Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
Device identities
        Source device: UICC
        Destination device: ME
Alpha Identifier
        Alpha Identifier   "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	49
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.10.1

Logically:

Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully
AT Response
        AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

27.22.4.23.3.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 3.10.

27.22.4.23.4 RUN AT COMMAND (UCS2 display in Cyrillic)

27.22.4.23.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.4.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.4.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.4.4 Method of test

27.22.4.23.4.4.1 Initial conditions

The ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.4.4.2 Procedure

Expected Sequence 4.1(RUN AT COMMAND, alpha identifier presented coded with UCS2 in Cyrillic, request ME Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 4.1.1	[alpha identifier, request ME Manufacturer ID]
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	['Hello' in Russian]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 4.1.1	[Command performed successfully, AT Response containing ME Manufacturer ID]

PROACTIVE UICC COMMAND: RUN AT COMMAND 4.1.1

Logically:

 Command details
   Command number: 1
   Command type: RUN AT COMMAND
   Command qualifier: "00"
 Device identities
   Source device: UICC

     Destination device: ME
Alpha Identifier
     Alpha Identifier   "ЗДРАВСТВУЙТЕ"
AT Command
     AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	21	81	03	01	34	00	82	02	81	82	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	A8	07	41	54	2B	43	47	4D	49	

TERMINAL RESPONSE: RUN AT COMMAND 4.1.1

Logically:

Command details
     Command number: 1
     Command type: RUN AT COMMAND
     Command qualifier: "00"
Device identities
     Source device: ME
     Destination device: UICC
Result
     General Result: Command performed successfully
AT Response
     AT Response string: ME Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	...	...	XX						

27.22.4.23.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.23.5 RUN AT COMMAND (UCS2 display in Chinese)

27.22.4.23.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.5.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.5.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.5.4   Method of test

27.22.4.23.5.4.1   Initial conditions

The ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.5.4.2   Procedure

Expected Sequence 5.1(RUN AT COMMAND, alpha identifier presented coded with UCS2 in Chinese, request ME Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 5.1.1	[alpha identifier, request ME Manufacturer ID]
4	ME → USER	Display "你好"	['Hello' in Chinese]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 5.1.1	[Command performed successfully, AT Response containing ME Manufacturer ID]

PROACTIVE UICC COMMAND: RUN AT COMMAND 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier

        Alpha Identifier   "你好"
    AT Command
        AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	19	81	03	01	34	00	82	02	81	82	85
	05	80	4F	60	59	7D	A8	07	41	54	2B	43
	47	4D	49									

TERMINAL RESPONSE: RUN AT COMMAND 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: ME

      Destination device: UICC

Result

      General Result: Command performed successfully

AT Response

      AT Response string: ME Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.23.6 RUN AT COMMAND (UCS2 display in Katakana)

27.22.4.23.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.6.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- 3GPP TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- 3GPP TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.6.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.6.4 Method of test

27.22.4.23.6.4.1 Initial conditions

The ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.6.4.2 Procedure

Expected Sequence 6.1(RUN AT COMMAND, alpha identifier presented coded with UCS2 in Katakana, request ME Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 6.1.1	[alpha identifier, request ME Manufacturer ID]
4	ME → USER	Display "80ﾙ"	['80Test' in Katakana]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 6.1.1	[Command performed successfully, AT Response containing ME Manufacturer ID]

PROACTIVE UICC COMMAND: RUN AT COMMAND 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier
        Alpha Identifier "80ﾙ"
    AT Command
        AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	1B	81	03	01	34	00	82	02	81	82	85
	07	80	00	38	00	30	30	EB	A8	07	41	54
	2B	43	47	4D	49							

TERMINAL RESPONSE: RUN AT COMMAND 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: RUN AT COMMAND
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    AT Response
        AT Response string: ME Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.24   SEND DTMF

27.22.4.24.1   SEND DTMF (Normal)

27.22.4.24.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.1.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

27.22.4.24.1.3   Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that if an alpha identifier is provided by the UICC and is a null data object the ME does not give any information to the user on the fact that the ME is performing a SEND DTMF command.

27.22.4.24.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.1.4. 2   Procedure

Expected Sequence 1.1 (SEND DTMF, normal)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.1.1	
7	ME → USER	May give information to the user concerning what is happening. Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
        DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	0D	81	03	01	14	00	82	02	81	83	AC
	02	C1	F2									

Start DTMF 1.1

Logically:

        DTMF String: "1"

Start DTMF 1.2

Logically:

        DTMF String: "2"

TERMINAL RESPONSE: SEND DTMF 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (SEND DTMF, containing alpha identifier)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.2.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	Alpha identifier
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 1.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Send DTMF"
    DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1B	81	03	01	14	00	82	02	81	83	85
	09	53	65	6E	64	20	44	54	4D	46	AC	05
	21	43	65	87	09							

Start DTMF 1.3

Logically:

      DTMF String: "3"

Start DTMF 1.4

Logically:

      DTMF String: "4"

Start DTMF 1.5

Logically:

      DTMF String: "5"

Start DTMF 1.6

Logically:

      DTMF String: "6"

Start DTMF 1.7

Logically:

      DTMF String: "7"

Start DTMF 1.8

Logically:

      DTMF String: "8"

Start DTMF 1.9

Logically:

      DTMF String: "9"

Start DTMF 1.10

Logically:

      DTMF String: "0"

Expected Sequence 1.3 (SEND DTMF, containing alpha identifier with null data object)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.3.1	Alpha identifier with null data object
7	ME → USER	Do not give any information to the user on the fact that the ME is performing a SEND DTMF command. Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 30 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "" (null data object)
        DTMF String: "1" pause pause pause pause pause pause pause pause pause "2"

Coding:

BER-TLV:	D0	13	81	03	01	14	00	82	02	81	83	85
	00	AC	06	C1	CC	CC	CC	CC	2C			

Expected Sequence 1.4 (SEND DTMF, mobile is not in a speech call)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	[Mobile is not in a speech call]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.4.1	[ME currently unable to process command, not in speech call]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: SEND DTMF 1.4.1

Logically:

    Command details

	Command number:	1
	Command type:	SEND DTMF
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	ME currently unable to process command
	Additional information:	Not in speech call

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	02	20
	07											

27.22.4.24.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4.

27.22.4.24.2 SEND DTMF (Display of icons)

27.22.4.24.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44, clause 8.31 and clause 6.5.4.

27.22.4.24.2.3 Test purpose

To verify that after a call has been successfully established the ME send the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME do not locally generate audible DTMF tones and play them to the user.

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the icons which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.2.4 Method of test

27.22.4.24.2.4.1 Initial conditions

The ME is connected to the SIM Simulator and only connected to the System Simulator if the System Simulator is mentioned in the sequence table.Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

The elementary files are coded as Toolkit default.

27.22.4.24.2.4.2 Procedure

Expected Sequence 2.1A (SEND DTMF, BASIC ICON self explanatory, successful)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
7	ME → USER	Display the BASIC-ICON Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Basic Icon"
        DTMF String: "1" pause "2"
    Icon identifier
        Icon qualifier: icon is self-explanatory
        Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	AC
	02	C1	F2	9E	02	00	01					

DTMF Request 2.1.1

Logically:

    DTMF String: $DTMF_2.1\$ = "C1 F2" (given as example)

TERMINAL RESPONSE: SEND DTMF 2.1.1A

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC

Result

    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

Expected Sequence 2.1B (SEND DTMF, BASIC ICON self explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
7	ME → USER	Display "Basic Icon" without the icon Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

TERMINAL RESPONSE: SEND DTMF 2.1.1B

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	04

Expected Sequence 2.2A (SEND DTMF, COLOUR-ICON self explanatory, successful)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	[COLOUR-ICON]
7	ME → USER	Display the COLOUR-ICON Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Colour Icon"
        DTMF String: "1" pause "2"
    Icon identifier:
        Icon qualifier: icon is self-explanatory
        Icon identifier: record 2 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	1E	81	03	01	14	00	82	02	81	83	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	AC	02	C1	F2	9E	02	00	02				

Expected Sequence 2.2B (SEND DTMF, COLOUR-ICON self explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	[COLOUR-ICON]
7	ME → USER	Display "Colour Icon" without the icon	
		Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

Expected Sequence 2.3A (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory, successful)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self-explanatory]
7	ME → USER	Display 'Send DTMF' and the BASIC-ICON	
		Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 2.3.1

Logically:

    Command details
            Command number: 1
            Command type: SEND DTMF
            Command qualifier: "00"
    Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF"
DTMF String: "1" pause "2"
Icon identifier:
Icon qualifier: icon is not self-explanatory
Icon identifier: record 1 in EF(IMG)

Coding:

BER-TLV:	D0	1C	81	03	01	14	00	82	02	81	83	85
	09	53	65	6E	64	20	44	54	4D	46	AC	02
	C1	F2	9E	02	01	01						

Expected Sequence 2.3B (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self-explanatory]
7	ME → USER	Display "Send DTMF" without the icon Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

27.22.4.24.2.5   Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

27.22.4.24.3   SEND DTMF (UCS2 display in Cyrillic)

27.22.4.24.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.3.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646. [17].

27.22.4.24.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.24.3.4 Method of test

27.22.4.24.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.24.3.4.2 Procedure

Expected Sequence 3.1 (SEND DTMF, successful, UCS2 text in Cyrillic)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 3.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 3.1.1	
7	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 3.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 3.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SEND DTMF
        Command qualifier:     "00"
Device identities
        Source device:         UICC
        Destination device:    Network
Alpha Identifier
        Text:                  "ЗДРАВСТВУЙТЕ"
        DTMF String:           "1" pause "2"
```

Coding:

BER-TLV:	D0	28	81	03	01	14	00	82	02	81	83	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	AC	02	C1	F2						

TERMINAL RESPONSE: SEND DTMF 3.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successful

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.12.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.24.4 SEND DTMF (support of Text Attribute)

27.22.4.24.4.1 SEND DTMF (support of Text Attribute – Left Alignment)

27.22.4.24.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.1.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.1.4   Method of test

27.22.4.24.4.1.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.1.4.2   Procedure

Expected Sequence 4.1 (SEND DTMF, with text attribute – Left Alignment)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.1.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with left alignment]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.1.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.1.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.1.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/17, no alignment change will take place]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]

33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.1.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 1"
    DTMF String: "1234567890"
    Text Attribute

        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.1.2

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 2"
    DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.1.1

Logically:

Command details

  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"

Device identities

  Source device: ME
  Destination device: UICC

Result

  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.24.4.2 SEND DTMF (support of Text Attribute – Center Alignment)

27.22.4.24.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.2.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.2.4 Method of test

27.22.4.24.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.2.4.2   Procedure

Expected Sequence 4.2 (SEND DTMF, with text attribute – Center Alignment)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.2.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with center alignment]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.2.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.2.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.2.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/17, no alignment change will take place]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.2.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.2.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 1"
    DTMF String: "1234567890"
    Text Attribute

                Formatting position: 0
                Formatting length: 11
                Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
                Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	01	B4										

PROACTIVE COMMAND: SEND DTMF 4.2.2

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 2"
    DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.2.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.2.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.24.4.3   SEND DTMF (support of Text Attribute – Right Alignment)

27.22.4.24.4.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.4.3.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.3.3   Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.3.4   Method of test

27.22.4.24.4.3.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.3.4.2   Procedure

Expected Sequence 4.3 (SEND DTMF, with text attribute – Right Alignment)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.3.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with right alignment]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.3.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.3.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.3.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/17, no alignment change will take place]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.3.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.3.1

Logically:

    Command details
        Command number: 1

Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"
Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	02	B4										

PROACTIVE COMMAND: SEND DTMF 4.3.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.3.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.3.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.24.4.4   SEND DTMF (support of Text Attribute – Large Font Size)

27.22.4.24.4.4.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.4.4.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.4.3   Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.4.4   Method of test

27.22.4.24.4.4.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.4.4.2   Procedure

Expected Sequence 4.4 (SEND DTMF, with text attribute – Large Font Size)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with large font size]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.1	
45	ME → UICC	FETCH	

46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with large font size]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"
Text Attribute

Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	04	B4										

PROACTIVE COMMAND: SEND DTMF 4.4.2

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"
Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.4.3

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.24.4.5 SEND DTMF (support of Text Attribute – Small Font Size)

27.22.4.24.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.5.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.5.4 Method of test

27.22.4.24.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.5.4.2 Procedure

Expected Sequence 4.5 (SEND DTMF, with text attribute – Small Font Size)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with small font size]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	

42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.1	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with small font size]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.5.1

Logically:

Command details
      Command number: 1
      Command type: SEND DTMF

        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 1"
    DTMF String: "1234567890"
    Text Attribute

        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off,
        Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	08	B4										

PROACTIVE COMMAND: SEND DTMF 4.5.2

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 2"
    DTMF String: "1234567890"
    Text Attribute

        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
        Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.5.3

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 3"
    DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.5.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.24.4.6   SEND DTMF (support of Text Attribute – Bold On)

27.22.4.24.4.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.4.6.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.6.3   Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the bold text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.6.4   Method of test

27.22.4.24.4.6.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.6.4.2   Procedure

Expected Sequence 4.6 (SEND DTMF, with text attribute – Bold On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold off]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]

38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.1	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 1"
    DTMF String: "1234567890"
    Text Attribute

        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off,
        Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	10	B4										

PROACTIVE COMMAND: SEND DTMF 4.6.2

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 2"
    DTMF String: "1234567890"
    Text Attribute

        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
        Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.6.3

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC

Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.24.4.7 SEND DTMF (support of Text Attribute – Italic On)

27.22.4.24.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.7.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the italic text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.7.4   Method of test

27.22.4.24.4.7.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.7.4.2   Procedure

Expected Sequence 4.7 (SEND DTMF, with text attribute – Italic On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic off]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]

33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.1	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	

80	User → ME	End the call		

PROACTIVE COMMAND: SEND DTMF 4.7.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 1"
    DTMF String: "1234567890"
    Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	20	B4										

PROACTIVE COMMAND: SEND DTMF 4.7.2

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 2"
    DTMF String: "1234567890"
    Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.7.3

Logically:

    Command details
        Command number: 1

	Command type:	SEND DTMF
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Send DTMF 3"
DTMF String:		"1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.7.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND DTMF
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.24.4.8 SEND DTMF (support of Text Attribute – Underline On)

27.22.4.24.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.8.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the underline text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.8.4 Method of test

27.22.4.24.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.8.4.2 Procedure

Expected Sequence 4.8 (SEND DTMF, with text attribute – Underline On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline off]
28	ME → USS	Start DTMF 1.1	["1"]

29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.1	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]

77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.8.1

Logically:

    Command details
            Command number: 1
            Command type: SEND DTMF
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: Network
    Alpha identifier: "Send DTMF 1"
    DTMF String: "1234567890"
    Text Attribute

                    Formatting position: 0
                    Formatting length: 11
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On,
                    Strikethrough Off
                    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	40	B4										

PROACTIVE COMMAND: SEND DTMF 4.8.2

Logically:

    Command details
            Command number: 1
            Command type: SEND DTMF
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: Network
    Alpha identifier: "Send DTMF 2"
    DTMF String: "1234567890"
    Text Attribute

                    Formatting position: 0
                    Formatting length: 11
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                    Strikethrough Off
                    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.8.3

Logically:

        Command details
                Command number: 1
                Command type: SEND DTMF
                Command qualifier: "00"
        Device identities
                Source device: UICC
                Destination device: Network
        Alpha identifier: "Send DTMF 3"
        DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.8.1

Logically:

        Command details
                Command number: 1
                Command type: SEND DTMF
                Command qualifier: "00"
        Device identities
                Source device: ME
                Destination device: UICC
        Result
                General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.8.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.24.4.9   SEND DTMF (support of Text Attribute – Strikethrough On)

27.22.4.24.4.9.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.4.9.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.9.3   Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.9.4   Method of test

27.22.4.24.4.9.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.9.4.2   Procedure

Expected Sequence 4.9 (SEND DTMF, with text attribute – Strikethrough On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.2	

27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough off]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.1	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]

73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.9.1

Logically:

    Command details
            Command number: 1
            Command type: SEND DTMF
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: Network
    Alpha identifier: "Send DTMF 1"
    DTMF String: "1234567890"
    Text Attribute
                    Formatting position: 0
                    Formatting length: 11
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
                    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	80	B4										

PROACTIVE COMMAND: SEND DTMF 4.9.2

Logically:

    Command details
            Command number: 1
            Command type: SEND DTMF
            Command qualifier: "00"
    Device identities
            Source device: UICC
            Destination device: Network
    Alpha identifier: "Send DTMF 2"
    DTMF String: "1234567890"
    Text Attribute
                    Formatting position: 0
                    Formatting length: 11
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
                    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.9.3

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "Send DTMF 3"
    DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.9.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.24.4.10   SEND DTMF (support of Text Attribute – Foreground and Background Colour)

27.22.4.24.4.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.4.10.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.10.3   Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.10.4   Method of test

27.22.4.24.4.10.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.10.4.2   Procedure

Expected Sequence 4.10 (SEND DTMF, with text attribute – Foreground and Background Colour)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.10.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.10.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with foreground and background colour according to the text attribute configuration]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.10.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.10.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.10.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with ME"s default foreground and background colour]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.10.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.10.1

Logically:

    Command details
        Command number: 1

Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"
Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B4	0B
	00	B4										

PROACTIVE COMMAND: SEND DTMF 4.10.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.10.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.10.5   Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.24.5   SEND DTMF (UCS2 Display in Chinese)

27.22.4.24.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.5.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters , as defined in:

- ISO/IEC 10646. [17].

27.22.4.24.5.3   Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.24.5.4   Method of test

27.22.4.24.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.24.5.4.2   Procedure

Expected Sequence 5.1 (SEND DTMF, successful, UCS2 text in Chinese)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 5.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 5.1.1	
7	ME → USER	Display "你好"	["Hello" in Chinese]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 5.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha Identifier

        Text: "你好"
        DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	14	81	03	01	14	00	82	02	81	83	85
	05	80	4F	60	59	7D	AC	02	C1	F2		

TERMINAL RESPONSE: SEND DTMF 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DTMF
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successful

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.5.5   Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.24.6   SEND DTMF (UCS2 Display in Katakana)

27.22.4.24.6.1   Definition and applicability

See clause 3.2.2.

27.22.4.24.6.2   Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- 3GPP TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters , as defined in:

- ISO/IEC 10646. [17].

27.22.4.24.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.24.6.4 Method of test

27.22.4.24.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.24.6.4.2 Procedure

Expected Sequence 6.1 (SEND DTMF, successful, UCS2 text)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 6.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 6.1.1	
7	ME → USER	Display "ﾃﾙ"	["Test" in Katakana]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 6.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 6.1.1

Logically:

```
Command details
      Command number:        1
      Command type:          SEND DTMF
      Command qualifier:     "00"
Device identities
      Source device:         UICC
      Destination device:    Network
Alpha Identifier
      Text:                  "ﾃﾙ"
      DTMF String:           "1" pause "2"
```

Coding:

BER-TLV:	D0	12	81	03	01	14	00	82	02	81	83	85
	03	80	30	EB	AC	02	C1	F2				

TERMINAL RESPONSE: SEND DTMF 6.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successful

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

27.22.4.25 LANGUAGE NOTIFICATION

27.22.4.25.1 Definition and applicability

See clause 3.2.2.

27.22.4.25.2 Conformance Requirement

The ME shall conclude the command by sending TERMINAL RESPONSE (OK) to the UICC, as soon as possible after receiving the LANGUAGE NOTIFICATION proactive UICC command.

- 3GPP TS 31.111 clause 6.4.25 and clause 6.6.25.

27.22.4.25.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the LANGUAGE NOTIFICATION proactive UICC command.

27.22.4.25.4 Method of Test

27.22.4.25.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.25.4.2   Procedure

Expected Sequence 1.1 (LANGUAGE NOTIFICATION)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1	Language specified in the command is different from the one set on the mobile.
4	ME → UICC	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1	[Command performed successfully]
5	UICC→ ME	PROACTIVE UICC SESSION ENDED	Language of ME may have been replaced by the one specified in LANGUAGE NOTIFICATION 1.1.1

PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: LANGUAGE NOTIFICATION
        Command qualifier: "01" (specific language notification)
    Device identities
        Source device: UICC
        Destination device: ME
    Language
        Language   'se'(Spanish) → 73 65
        or 'de'→64 65 (German) for instance: choose a language different
        from the one initially set on the ME to check the proper execution
        of the command

Coding:

BER-TLV:	D0	0D	81	03	01	35	01	82	02	81	82	AD
	02	73	65									

TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: LANGUAGE NOTIFICATION
        Command qualifier: "01"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	35	01	82	02	82	81	83	01	00

Expected Sequence 1.2 (LANGUAGE NOTIFICATION)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1	Language specified in the command is different from the one set on the mobile.
4	ME → UICC	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1	[Command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.2.1	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.2.1	
8	ME → UICC	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.2.1	[Command performed successfully]
9	UICC → ME	PROACTIVE UICC SESSION ENDED	Check that initial language is set.

PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: LANGUAGE NOTIFICATION
        Command qualifier: "00" (non specific language notification)
    Device identities
        Source device: UICC
        Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	35	00	82	02	81	82

TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: LANGUAGE NOTIFICATION
        Command qualifier: "00"
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	35	00	82	02	82	81	83	01	00

27.22.4.25.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 and 1.2.

27.22.4.26 LAUNCH BROWSER

27.22.4.26.1 LAUNCH BROWSER (No session already launched)

27.22.4.26.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.1.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15 and clause 8.31.

27.22.4.26.1.3 Test purpose

To verify that when the ME is in idle state, it launches properly the browser session required in LAUNCH BROWSER, and returns a successful result in the TERMINAL RESPONSE command.

27.22.4.26.1.4 Method of test

27.22.4.26.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

   With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is in idle mode.

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.26.1.4.2 Procedure

Expected Sequence 1.1 (LAUNCH BROWSER, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.1.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id.]
4	ME → USER	ME displays the alpha identifier	
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.1.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default browser parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default browser session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty
    Alpha Identifier   "Default URL"

Coding:

BER-TLV:	D0	18	81	03	01	15	00	82	02	81	82	31
	00	05	0B	44	65	66	61	75	6C	74	20	55
	52	4C										

TERMINAL RESPONSE: LAUNCH BROWSER 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (LAUNCH BROWSER, connect to the specified URL, alpha identifier length=0)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.2.1	[connect to defined URL, "launch browser, if not already launched, alpha identifier length=0]
4	ME → USER	No information should be displayed.	
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.2.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the URL specified in the LAUNCH BROWSER command.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the URL is properly connected. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        URL   http://xxx.yyy.zzz (note: this URL shall be different from the default URL, but it can be reached from the gateway defined by default in the browser parameters of the mobile)
    Alpha Identifier   empty

Coding:

BER-TLV:	D0	1F	81	03	01	15	00	82	02	81	82	31
	12	68	74	74	70	3A	2F	2F	78	78	78	2E
	79	79	79	2E	7A	7A	7A	05	00			

TERMINAL RESPONSE: LAUNCH BROWSER 1.2.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: ME
        Destination device: UICC

Result

    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.3 (LAUNCH BROWSER, Browser identity, no alpha identifier)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.3.1	[connect to the default URL, "launch browser, if not already launched, browser identity]
4	ME → USER	ME may display a default message of its own.	
5	USER → ME	The user may confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.3.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default browser session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        Browser Identity   default
        URL   empty

Coding::

BER-TLV:	D0	0E	81	03	01	15	00	82	02	81	82	30
	01	00	31	00								

TERMINAL RESPONSE: LAUNCH BROWSER 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: ME
        Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (LAUNCH BROWSER, only GPRS bearer specified and gateway/proxy identity, GPRS supported by USS)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode], GPRS supported by USS, GPRS supported by the ME and activated]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1	[connect to the default URL, "launch browser, if not already launched, 1 bearer specified, gateway/proxy id specified]
4	ME → USER	ME may display a default message	
5	USER → ME	The user may confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the default URL using the requested bearer and proxy identity	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the browser session is properly established with the required bearer. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty
        Bearer   GPRS
    Gateway/Proxy id
        DCSunpacked, 8 bits data
        Text string   abc.def.ghi (different from the default IP address)

Coding::

BER-TLV:	D0	1C	81	03	01	15	00	82	02	81	82	31
	00	32	01	03	0D	0C	04	61	62	63	2E	64
	65	66	2E	67	68	69						

TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.5A (LAUNCH BROWSER, two bearers GPRS, CSD specified and activated at USS and ME, gateway/proxy id specified)

Step	Direction	MESSAGE / Action	Comments
0	ME		[ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1	[connect to the default URL, "launch browser, if not already launched, several bearers, gateway/proxy id specified]
4	ME → USER	ME may display a default message	
5	USER → ME	The user may confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the browser session is properly established with the required bearer that is first in priority (GPRS). Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
    Bearer   GPRS, CSD
Gateway/Proxy id
    DCS   7 bits default alphabet
    Text string   abc.def.ghi (different from the default IP address)

Coding::

BER-TLV:	D0	1C	81	03	01	15	00	82	02	81	82	31
	00	32	02	03	01	0D	0B	00	61	F1	D8	45
	2E	9B	5D	67	74	1A						

TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.5B (LAUNCH BROWSER, two bearers GPRS, CSD specified and activated at USS, only CSD supported and activated by the ME, gateway/proxy id specified)

Step	Direction	MESSAGE / Action	Comments
0	ME		[ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1	[connect to the default URL, "launch browser, if not already launched', several bearers, gateway/proxy id specified]
4	ME → USER	ME asks for user confirmation	
5	USER → ME	The user confirms the launch browser.	
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the browser session is properly established with the CSD bearer. Then he/she ends the navigation. The ME returns in idle mode.	

Expected Sequence 1.5C (LAUNCH BROWSER, only CSD bearer specified and activated at USS, GPRS and CSD supported and activated by the ME, gateway/proxy id specified)

Step	Direction	MESSAGE / Action	Comments
0	ME		[ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1	[connect to the default URL, "launch browser, if not already launched', several bearers, gateway/proxy id specified]
4	ME → USER	ME asks for user confirmation	
5	USER → ME	The user confirms the launch browser.	
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1	[Command performed successfully]

	7	ME→USS	The ME attempts to connect the default URL.	
	8	UICC → ME	PROACTIVE UICC SESSION ENDED	
	9	USER → ME	The user verifies that the browser session is properly established with the CSD bearer. Then he/she ends the navigation. The ME returns in idle mode.	

27.22.4.26.1.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5

27.22.4.26.2   LAUNCH BROWSER (Interaction with current session)

27.22.4.26.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.26.2.2   Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 82.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

27.22.4.26.2.3   Test purpose

To verify that when the ME is already busy in a browser session, it launches properly the browser session required in LAUNCH BROWSER, and returns a successful result in the TERMINAL RESPONSE.

27.22.4.26.2.4   Method of test

27.22.4.26.2.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to a Wap gateway is required. The default browser parameters (IP address, gateway/proxy identity, called number…) of the tested mobile shall be properly filled to access that gateway.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in browser parameters.

27.22.4.26.2.4.2   Procedure

Expected Sequence 2.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL).	[Browser is in use, the current session is not secured]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.1.1	[connect to the default URL, "use the existing browser", no null alpha id.]
4	ME → USER	ME displays the alpha identifier	

5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: use the existing browser
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty
    Alpha Identifier   "Default URL"

Coding:

BER-TLV:	D0	18	81	03	01	15	02	82	02	81	82	31
	00	05	0B	44	65	66	61	75	6C	74	20	55
	52	4C										

TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: use the existing browser
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

Expected Sequence 2.2 (LAUNCH BROWSER, close the existing browser session and launch new browser session, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL)..	[Browser is in use, the current session is not secured]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.2.1	
2	ME → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.2.1	[connect to the default URL, "close the existing browser session and launch new browser session", no null alpha id.]
4	ME → USER	ME displays the alpha identifier	
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1	[Command performed successfully]
7	ME→USS	The ME closes the existing session and attempts to launch the session with the default browser parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL cannot be retrieved (to verify the previous session has been closed). Then he/she does not end the navigation.	

PROACTIVE COMMAND: LAUNCH BROWSER 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: close the existing browser session and launch new browser sessionDevice identities
        Source device: UICC
        Destination device: ME
        URL   empty
    Alpha Identifier   "Default URL"

Coding:

BER-TLV:	D0	18	81	03	01	15	03	82	02	81	82	31
	00	05	0B	44	65	66	61	75	6C	74	20	55
	52	4C										

TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: close the existing browser session and launch new browser session
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	03	82	02	82	81	83	01	00

Expected Sequence 2.3 (LAUNCH BROWSER, if not already launched)

Step	Direction	MESSAGE / Action	Comments

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL)..	[Browser is in use, the current session is not secured]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.3.1	[connect to the default URL, "launch browser, if not already launched]
4	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1	[ME unable to process command - browser unavailable]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	The user verifies that the default URL has not been connected. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 2.3.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty

Coding:

BER-TLV:	D0	0B	81	03	01	15	00	82	02	81	82	31
	00											

TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Launch browser generic error code
    Additional data   Browser unavailable

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	02	26
	02											

27.22.4.26.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

27.22.4.26.3 LAUNCH BROWSER (UCS2 display in Cyrillic)

27.22.4.26.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.3.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.26.3.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.3.4 Method of test

27.22.4.26.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in Wap parameters.

27.22.4.26.3.4.2 Procedure

Expected Sequence 3.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL)..	[Browser is in use, the current session is not secured]]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 3.1.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays the alpha identifier "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	USER → ME	The user confirms the launch browser.	[user confirmation]

6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 3.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 3.1.1

Logically:

```
Command details
      Command number:       1
      Command type:         LAUNCH BROWSER
      Command qualifier:    use the existing browser
Device identities
      Source device:        UICC
      Destination device:   ME
      URL                   empty
Alpha Identifier
      Data coding scheme:   UCS2 (16 bits)
      Text:                 "ЗДРАВСТВУЙТЕ"
```

Coding:

BER-TLV:	D0	26	81	03	01	15	02	82	02	81	82	31
	00	05	19	80	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15								

TERMINAL RESPONSE: LAUNCH BROWSER 3.1.1

Logically:

```
Command details
      Command number:       1
      Command type:         LAUNCH BROWSER
      Command qualifier:    use the existing browser
Device identities
      Source device:        ME
      Destination device:   UICC
Result
      General Result:       Command performed successfully
```

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

27.22.4.26.3.5   Test Requirement

The ME shall operate in the manner defined in expected sequence 3.1.

27.22.4.26.4 LAUNCH BROWSER (icons support)

27.22.4.26.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.4.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

27.22.4.26.4.3 Test purpose

To verify that the ME performs a proper user confirmation with an icon identifier, launches the browser session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.4.4 Method of test

27.22.4.26.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

    With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in browser parameters.

27.22.4.26.4.4.2 Procedure

Expected Sequence 4.1A (LAUNCH BROWSER, use the existing browser, icon not self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.1.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.1.1	[connect to the default URL, "use the existing browser", no null alpha id.]
4	ME → USER	ME displays the alpha identifier and the icon	["Not self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 A	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	

| 9 | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL. | |

PROACTIVE COMMAND: LAUNCH BROWSER 4.1.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: use the existing browser
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier   "Not self explan."
Icon identifier:
    Icon qualifier: not self-explanatory
    Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	21	81	03	01	15	02	82	02	81	82	31
	00	05	10	4E	6F	74	20	73	65	6C	66	20
	65	78	70	6C	61	6E	2E	1E	02	01	01	

TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 A

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: use the existing browser
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

Expected Sequence 4.1B (LAUNCH BROWSER, use the existing browser, icon not self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.1.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.1.1	[connect to the default URL, "use the existing browser", no null alpha id.]
4	ME → USER	ME displays the alpha identifier Without the icon	["Not self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]

	6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 B	[Command performed successfully but requested icon could not be displayed]
	7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
	8	UICC → ME	PROACTIVE UICC SESSION ENDED	
	9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 B

Logically:

```
    Command details
        Command number:      1
        Command type:        LAUNCH BROWSER
        Command qualifier:   use the existing browser
    Device identities
        Source device:       ME
        Destination device:  UICC
    Result
        General Result:      Command performed successfully but requested icon could not be displayed
```

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	04

Expected Sequence 4.2A (LAUNCH BROWSER, use the existing browser, icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.2.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.2.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays only the icon	["Self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 A	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 4.2.1

Logically:

```
    Command details
        Command number:      1
        Command type:        LAUNCH BROWSER
```

	Command qualifier:	use the existing browser

Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier   "Self explan."
Icon identifier:
    Icon qualifier: self-explanatory
    Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1D	81	03	01	15	02	82	02	81	82	31
	00	05	0C	53	65	6C	66	20	65	78	70	6C
	61	6E	2E	1E	02	00	01					

TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 A

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: use the existing browser
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

Expected Sequence 4.2B (LAUNCH BROWSER, use the existing browser, icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.2.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.2.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays only the alpha identifier	["Self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 B	[Command performed successfully] [Command performed successfully but requested icon could not be displayed]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 B

Logically:

```
Command details
      Command number:        1
      Command type:          LAUNCH BROWSER
      Command qualifier:     use the existing browser
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Command performed successfully but requested icon could not be displayed
```

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	04

27.22.4.26.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 4.1A to 4.2B.

27.22.4.26.5 LAUNCH BROWSER (support of Text Attribute)

27.22.4.26.5.1 LAUNCH BROWSER (support of Text Attribute – Left Alignment)

27.22.4.26.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.1.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111[15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.1.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the left alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.1.4 Method of test

27.22.4.26.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.1.4.2 Procedure

Expected Sequence 5.1 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.1.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with left alignment]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.1.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.1.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/18, no alignment change will take place]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty

Alpha Identifier "Default URL 1"
Text Attribute

Formatting position: 0
Formatting length: 13
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.1.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier   "Default URL 2"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.1.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.1.

27.22.4.26.5.2   LAUNCH BROWSER (support of Text Attribute – Center Alignment)

27.22.4.26.5.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.26.5.2.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.2.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the center alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.2.4 Method of test

27.22.4.26.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.2.4.2 Procedure

Expected Sequence 5.2 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.2.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with center alignment]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.2.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.2.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/18, no alignment change will take place]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.2.1

Logically:

```
    Command details
        Command number:      1
        Command type:        LAUNCH BROWSER
        Command qualifier:   launch browser, if not already launched
    Device identities
        Source device:       UICC
        Destination device:  ME
        URL                  empty
    Alpha Identifier  "Default URL 1"
    Text Attribute
                Formatting position: 0
                Formatting length:   13
                Formatting mode:     Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
    Colour:         Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	01	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.2.2

Logically:

```
    Command details
        Command number:      1
        Command type:        LAUNCH BROWSER
        Command qualifier:   launch browser, if not already launched
    Device identities
        Source device:       UICC
        Destination device:  ME
        URL                  empty
    Alpha Identifier         "Default URL 2"
```

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.2.

27.22.4.26.5.3 LAUNCH BROWSER (support of Text Attribute – Right Alignment)

27.22.4.26.5.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.3.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.3.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the right alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.3.4 Method of test

27.22.4.26.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.3.4.2 Procedure

Expected Sequence 5.3 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.3.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with right alignment]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.3.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.3.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.3.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/18, no alignment change will take place]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.3.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.3.1

Logically:

Command details
    Command number: 1

<pre>
            Command type: LAUNCH BROWSER
            Command qualifier: launch browser, if not already launched
    Device identities
            Source device: UICC
            Destination device: ME
            URL   empty
    Alpha Identifier "Default URL 1"
    Text Attribute
                    Formatting position: 0
                    Formatting length: 13
                    Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                    Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background
</pre>

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	02	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.3.2

Logically:

<pre>
    Command details
            Command number: 1
            Command type: LAUNCH BROWSER
            Command qualifier: launch browser, if not already launched
    Device identities
            Source device: UICC
            Destination device: ME
            URL   empty
    Alpha Identifier   "Default URL 2"
</pre>

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.3.1

Logically:

<pre>
    Command details
            Command number: 1
            Command type: LAUNCH BROWSER
            Command qualifier: launch browser, if not already launched
    Device identities
            Source device: ME
            Destination device: UICC
    Result
            General Result: Command performed successfully
</pre>

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.3.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.3.

27.22.4.26.5.4 LAUNCH BROWSER (support of Text Attribute – Large Font Size)

27.22.4.26.5.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.4.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.&&& [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.4.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the large font size text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.4.4 Method of test

27.22.4.26.5.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.4.4.2 Procedure

Expected Sequence 5.4 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with large font size]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	

9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with large font size]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
25	ME USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	

| 36 | USER → ME | The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode. | |

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1

Logically:

    Command details
            Command number: 1
            Command type: LAUNCH BROWSER
            Command qualifier: launch browser, if not already launched
    Device identities
            Source device: UICC
            Destination device: ME
            URL   empty
    Alpha Identifier "Default URL 1"
    Text Attribute
                    Formatting position: 0
                    Formatting length: 13
                    Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off,
                    Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	04	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.2

Logically:

    Command details
            Command number: 1
            Command type: LAUNCH BROWSER
            Command qualifier: launch browser, if not already launched
    Device identities
            Source device: UICC
            Destination device: ME
            URL   empty
    Alpha Identifier "Default URL 2"
    Text Attribute
                    Formatting position: 0
                    Formatting length: 13
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                    Strikethrough Off
            Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.3

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier   "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.4.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.4.

27.22.4.26.5.5   LAUNCH BROWSER (support of Text Attribute – Small Font Size)

27.22.4.26.5.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.26.5.5.2   Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.5.3   Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the small font size text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.5.4   Method of test

27.22.4.26.5.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.5.4.2   Procedure

Expected Sequence 5.5 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with small font size]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	

18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with small font size]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
25	ME USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1

Logically:

```
Command details
        Command number:        1
        Command type:          LAUNCH BROWSER
        Command qualifier:     launch browser, if not already launched
Device identities
        Source device:         UICC
        Destination device:    ME
        URL                    empty
Alpha Identifier    "Default URL 1"
Text Attribute
                Formatting position: 0
                Formatting length:   13
```

ETSI

Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	08	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL 2"
Text Attribute
    Formatting position: 0
    Formatting length: 13
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.3

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1

Logically:

Command details
    Command number: 1

	Command type:	LAUNCH BROWSER
	Command qualifier:	launch browser, if not already launched
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.5.

27.22.4.26.5.6 LAUNCH BROWSER (support of Text Attribute – Bold on)

27.22.4.26.5.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.6.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.6.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the bold text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.6.4 Method of test

27.22.4.26.5.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.6.4.2   Procedure

Expected Sequence 5.6 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold on]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
25	ME USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1

Logically:

    Command details
          Command number: 1
          Command type: LAUNCH BROWSER
          Command qualifier: launch browser, if not already launched
    Device identities
          Source device: UICC
          Destination device: ME
          URL   empty
    Alpha Identifier   "Default URL 1"
    Text Attribute
                  Formatting position: 0
                  Formatting length: 13
                  Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off,
                  Strikethrough Off
          Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	10	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.2

Logically:

    Command details
          Command number: 1
          Command type: LAUNCH BROWSER
          Command qualifier: launch browser, if not already launched
    Device identities
          Source device: UICC
          Destination device: ME

URL   empty
Alpha Identifier   "Default URL 2"
Text Attribute

                    Formatting position: 0
                    Formatting length: 13
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
      Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.3

Logically:

Command details
      Command number: 1
      Command type: LAUNCH BROWSER
      Command qualifier: launch browser, if not already launched
Device identities
      Source device: UICC
      Destination device: ME
      URL   empty
Alpha Identifier   "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1

Logically:

Command details
      Command number: 1
      Command type: LAUNCH BROWSER
      Command qualifier: launch browser, if not already launched
Device identities
      Source device: ME
      Destination device: UICC
Result
      General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.6.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.6.

27.22.4.26.5.7 LAUNCH BROWSER (support of Text Attribute – Italic On)

27.22.4.26.5.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.7.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.7.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the italic text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.7.4 Method of test

27.22.4.26.5.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.7.4.2 Procedure

Expected Sequence 5.7 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	

9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic on]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
25	ME USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty
    Alpha Identifier "Default URL 1"
    Text Attribute
              Formatting position: 0
              Formatting length: 13
              Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	20	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.2

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty
    Alpha Identifier "Default URL 2"
    Text Attribute
              Formatting position: 0
              Formatting length: 13
              Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.3

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: launch browser, if not already launched
    Device identities

Source device: UICC
Destination device: ME
URL   empty
Alpha Identifier   "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.7.

27.22.4.26.5.8 LAUNCH BROWSER (support of Text Attribute – Underline On)

27.22.4.26.5.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.8.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.8.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the underline text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.8.4 Method of test

27.22.4.26.5.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.8.4.2 Procedure

Expected Sequence 5.8 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline on]

23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
25	ME USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1

Logically:

    Command details
            Command number: 1
            Command type: LAUNCH BROWSER
            Command qualifier: launch browser, if not already launched
    Device identities
            Source device: UICC
            Destination device: ME
            URL   empty
    Alpha Identifier "Default URL 1"
    Text Attribute
                    Formatting position: 0
                    Formatting length: 13
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On,
                    Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	40	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier "Default URL 2"
Text Attribute
    Formatting position: 0
    Formatting length: 13
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.3

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier   "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.8.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.8.

27.22.4.26.5.9   LAUNCH BROWSER (support of Text Attribute – Strikethrough On)

27.22.4.26.5.9.1   Definition and applicability

See clause 3.2.2.

27.22.4.26.5.9.2   Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.9.3   Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the strikethrough text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.9.4   Method of test

27.22.4.26.5.9.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.9.4.2   Procedure

Expected Sequence 5.9 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]

7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough on]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]
25	ME USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	
27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]

34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.1

Logically:

```
Command details
        Command number:        1
        Command type:          LAUNCH BROWSER
        Command qualifier:     launch browser, if not already launched
Device identities
        Source device:         UICC
        Destination device:    ME
        URL                    empty
Alpha Identifier  "Default URL 1"
Text Attribute
                  Formatting position: 0
                  Formatting length:   13
                  Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                  Strikethrough On
        Colour:                Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	80	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.2

Logically:

```
Command details
        Command number:        1
        Command type:          LAUNCH BROWSER
        Command qualifier:     launch browser, if not already launched
Device identities
        Source device:         UICC
        Destination device:    ME
        URL                    empty
Alpha Identifier  "Default URL 2"
Text Attribute
                  Formatting position: 0
                  Formatting length:   13
                  Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                  Strikethrough Off
        Colour:                Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.3

Logically:

```
Command details
    Command number:        1
    Command type:          LAUNCH BROWSER
    Command qualifier:     launch browser, if not already launched
Device identities
    Source device:         UICC
    Destination device:    ME
    URL                    empty
Alpha Identifier           "Default URL 3"
```

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1

Logically:

```
Command details
    Command number:        1
    Command type:          LAUNCH BROWSER
    Command qualifier:     launch browser, if not already launched
Device identities
    Source device:         ME
    Destination device:    UICC
Result
    General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.9.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.9.

27.22.4.26.5.10   LAUNCH BROWSER (support of Text Attribute – Foreground and Background Colour)

27.22.4.26.5.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.26.5.10.2   Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.10.3   Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the foreground and background colour text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.10.4   Method of test

27.22.4.26.5.10.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The ME is in idle mode.

27.22.4.26.5.10.4.2   Procedure

Expected Sequence 5.10 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.10.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with foreground and background colour according to the text attribute configuration]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.10.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.10.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with ME"s default foreground and background colour]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	

| 17 | UICC → ME | PROACTIVE UICC SESSION ENDED | |
| 18 | USER → ME | The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode. | |

PROACTIVE COMMAND: LAUNCH BROWSER 5.10.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier "Default URL 1"
Text Attribute
    Formatting position: 0
    Formatting length: 13
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.10.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL   empty
Alpha Identifier   "Default URL 2"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.10.

27.22.4.26.6 LAUNCH BROWSER (UCS2 Display in Chinese)

27.22.4.26.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.6.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.26.6.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.6.4 Method of test

27.22.4.26.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

27.22.4.26.6.4.2   Procedure

Expected Sequence 6.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Chinese)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a Wap session (not default URL).	[Browser is in use, the current session is not secured]]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 6.1.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays the alpha identifier "你好"	["Hello" in Chinese]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 6.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: use the existing browser
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty
    Alpha Identifier
        Data coding scheme: UCS2 (16 bits)

        Text: "你好"

Coding:

BER-TLV:	D0	12	81	03	01	15	02	82	02	81	82	31
	00	05	05	80	4F	60	59	7D				

TERMINAL RESPONSE: LAUNCH BROWSER 6.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: use the existing browser
    Device identities
        Source device: ME
        Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

27.22.4.26.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.26.7 LAUNCH BROWSER (UCS2 Display in Katakana)

27.22.4.26.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.7.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.26.7.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.7.4 Method of test

27.22.4.26.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

    With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

27.22.4.26.7.4.2 Procedure

Expected Sequence 7.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Katakana)

Step	Direction	MESSAGE / Action	Comments

0	ME	The user is navigating in a Wap session (not default URL).	[Browser is in use, the current session is not secured]]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 7.1.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays the alpha identifier "ル"	["Test" in Katakana]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 7.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 7.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: use the existing browser
    Device identities
        Source device: UICC
        Destination device: ME
        URL   empty
    Alpha Identifier
        Data coding scheme: UCS2 (16 bits)
        Text: "ル"

Coding:

BER-TLV:	D0	10	81	03	01	15	02	82	02	81	82	31
	00	05	03	80	30	EB						

TERMINAL RESPONSE: LAUNCH BROWSER 7.1.1

Logically:

    Command details
        Command number: 1
        Command type: LAUNCH BROWSER
        Command qualifier: use the existing browser
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

27.22.4.26.7.5   Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.27   OPEN CHANNEL

27.22.4.27.1   Open Channel (related to CSD)

27.22.4.27.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.27.1.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111[15] clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 9.2, clause 8.2, clause 8.15, clause 8.31 and clause 8.70..

27.22.4.27.1.3   Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (OK); or

- TERMINAL RESPONSE (Command performed with modification); or

- TERMINAL RESPONSE (Network currently unable to process command);

- TERMINAL RESPONSE (Bearer Independent Protocol error);

- TERMINAL RESPONSE (ME currently unable to process command);

to the UICC after the ME receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the ME and the network capabilities against asked parameters by the UICC.

27.22.4.27.1.4   Method of test

27.22.4.27.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27

27.22.4.27.1.4.2   Procedure

Expected Sequence 1.1 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.32)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Address
        TON: International number
        NPI: ISDN / telephone numbering plan
        Dialling number string "112233445566778"
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 9600bps V.32
        Bearer service: data circuit asynchronous UDI
        Connection element: non-transparent
    Buffer size   1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established or PDP context activated
    Bearer description
        Bearer type: CSD

> Bearer parameter
> Data rate: 9600bps V.32
> Bearer service: data circuit asynchronous
> Connection element: non-transparent
> Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	00	B5	04	01	07	00	01	B9	02
	05	78										

Expected Sequence 1.2 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.34)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.2.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.2.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.2.1

Logically:

> Command details
> Command number: 1
> Command type: OPEN CHANNEL
> Command qualifier: immediate link establishment
> Device identities
> Source device: UICC
> Destination device: ME
> Address
> TON: International number
> NPI: ISDN / telephone numbering plan
> Dialling number string "112233445566778"
> Bearer description
> Bearer type: CSD
> Bearer parameter
> Data rate: 9600bps V.34
> Bearer service: data circuit asynchronous UDI
> Connection element: non-transparent
> Buffer size 1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	0C	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.2.1

Logically:

> Command details
> Command number: 1

	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Channel status		Channel identifier 1 and link established or PDP context activated
Bearer description		
	Bearer type:	CSD
	Bearer parameter	
	Data rate:	9600bps V.34
	Bearer service:	data circuit asynchronous
	Connection element:	non-transparent
Buffer size		1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	00	B5	04	01	0C	00	01	B9	02
	05	78										

Expected Sequence 1.3 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.120)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.3.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.3.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.3.1

Logically:

Command details		
	Command number:	1
	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	UICC
	Destination device:	ME
Address		
	TON:	International number
	NPI:	ISDN / telephone numbering plan
	Dialling number string	"112233445566778"
Bearer description		
	Bearer type:	CSD
	Bearer parameter	
	Data rate:	9600bps V.120
	Bearer service:	data circuit asynchronous UDI
	Connection element:	non-transparent
Buffer size		1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	27	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established or PDP context activated
        Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 9600bps V.120
        Bearer service: data circuit asynchronous
        Connection element: non-transparent
    Buffer size   1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	00	B5	04	01	27	00	01	B9	02
	05	78										

Expected Sequence 1.4 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.110 or X.31 flag stuffing, bearer asynchronous UDI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.4.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.4.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.4.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Address
        TON: International number
        NPI: ISDN / telephone numbering plan

Dialling number string "112233445566778"
Bearer description
    Bearer type: CSD
    Bearer parameter
    Data rate: 9600bps V.110 or X.31 flag stuffing
    Bearer service: data circuit asynchronous UDI
    Connection element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	47	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.4.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer Description
    Bearer Parameter
    Data rate: 9600bps V.110 or X.31 flag stuffing
    Bearer Service: data circuit asynchronous UDI
    Connection Element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	00	B5	04	01	47	00	01	B9	02
	05	78										

Expected Sequence 1.5 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.32, bearer asynchronous RDI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.5.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.5.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.5.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Address
    TON: International number
    NPI: ISDN / telephone numbering plan
    Dialling number string   "112233445566778"
Bearer description
    Bearer type: CSD
    Bearer parameter
    Data rate: 9600bps V.32
    Bearer service: data circuit asynchronous RDI
    Connection element: non-transparent
Buffer size   1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	04	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.5.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel status   Channel identifier 1 and link established or PDP context activated
Bearer Description
    Bearer Parameter
    Data rate: 9600bps V.32
    Bearer Service: data circuit asynchronous RDI
        Connection Element: non-transparent
Buffer size   1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	00	B5	04	01	07	04	01	B9	02
	05	78										

Expected Sequence 1.6 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.32, bearer asynchronous)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.6.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.6.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Address
        TON: International number
        NPI: ISDN / telephone numbering plan
        Dialling number string "112233445566778"
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 9600bps V.32
        Bearer service: data circuit asynchronous
        Connection element: both, transparent preferred
    Buffer size   1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	02	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established or PDP context activated
    Bearer Description
        Bearer Parameter
        Data rate: 9600bps V.32
        Bearer Service: data circuit asynchronous

      Connection Element: both, transparent preferred
Buffer size   1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	00	B5	04	01	07	00	02	B9	02
	05	78										

Expected Sequence 1.7(OPEN CHANNEL, immediate link establishment, CSD, 9600 bps, performed with modification)

The USS shall be configured such that open channel requests will be accepted with modification

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.7.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.7.1	[Command performed with modification]

PROACTIVE COMMAND: OPEN CHANNEL 1.7.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Address
        TON: International number
        NPI: ISDN / telephone numbering plan
        Dialling number string "112233445566778"
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 64000bps X.31
        Bearer service: data circuit asynchronous UDI
        Connection element: non-transparent
    Buffer size   1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	54	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.7.1

Logically:

    Command details
        Command number: 1

	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed with modification
Channel status		Channel identifier 1 and link established or PDP context activated
Bearer description		
	Bearer type:	CSD
	Bearer parameter	
	Data rate:	9600bps V.32
	Bearer service:	data circuit asynchronous
	Connection element:	non-transparent
Buffer size		1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	07
	B8	02	81	00	B5	04	01	07	00	01	B9	02
	05	78										

Expected Sequence 1.8 (OPEN CHANNEL, immediate link establishment, CSD, Network currently unable to process command)

The USS shall be configured such that open channel requests will be rejected with "No specific cause can be given".

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.8.1	
4	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.8.1	[Network currently unable to process command]

PROACTIVE COMMAND: OPEN CHANNEL 1.8.1

Logically:

Command details		
	Command number:	1
	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	UICC
	Destination device:	ME
Address		
	TON:	International number
	NPI:	ISDN / telephone numbering plan
	Dialling number string	"112233445566778"
Bearer description		
	Bearer type:	CSD
	Bearer parameter	
	Data rate:	64000bps X.31
	Bearer service:	data circuit asynchronous UDI
	Connection element:	non-transparent
Buffer size		1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	54	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.8.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Network currently unable to process command
        Additional info: No specific cause can be given
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 64000bps X.31
        Bearer service: data circuit asynchronous UDI
        Connection element: non-transparent
    Buffer size   1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	21
	00	B5	04	01	54	00	01	B9	02	05	78	

Expected Sequence 1.9 (OPEN CHANNEL, immediate link establishment, CSD, No channel available)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.9.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.9.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.9.2	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.9.2	[Bearer independent protocol error]

PROACTIVE COMMAND: OPEN CHANNEL 1.9.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities

		Source device:	UICC
		Destination device:	ME
	Address		
		TON:	International number
		NPI:	ISDN / telephone numbering plan
		Dialling number string	"112233445566778"
	Bearer description		
		Bearer type:	CSD
		Bearer parameter	
		Data rate:	56000bps V.120
		Bearer service:	data circuit asynchronous UDI
		Connection element:	non-transparent
	Buffer size		1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	33	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.9.1

Logically:

		Command details	
		Command number:	1
		Command type:	OPEN CHANNEL
		Command qualifier:	immediate link establishment
	Device identities		
		Source device:	ME
		Destination device:	UICC
	Result		
		General Result:	Command performed successfully
	Channel status		Channel identifier 1 and link established or PDP context activated
	Bearer description		
		Bearer type:	CSD
	Bearer parameter		
		Data rate:	56000bps V.120
		Bearer service:	data circuit asynchronous
		Connection element:	non-transparent
	Buffer size		1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	00	B5	04	01	33	00	01	B9	02
	05	78										

PROACTIVE COMMAND: OPEN CHANNEL 1.9.2

Logically:

		Command details	
		Command number:	1
		Command type:	OPEN CHANNEL
		Command qualifier:	immediate link establishment
	Device identities		
		Source device:	UICC
		Destination device:	ME
	Address		
		TON:	International number
		NPI:	ISDN / telephone numbering plan

Dialling number string "112233445566778"
Bearer description
    Bearer type: CSD
    Bearer parameter
    Data rate: 56000bps V.120
    Bearer service: data circuit asynchronous UDI
    Connection element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	33	00	01	B9	02	05	78				

TERMINAL RESPONSE: OPEN CHANNEL 1.9.2

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Bearer Independent Protocol error
    Additional info: No channel available
Bearer description
    Bearer type: CSD
    Bearer parameter
    Data rate: 56000bps V.120
    Bearer service: data circuit asynchronous UDI
    Connection element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	3A
	01	B5	04	01	33	00	01	B9	02	05	78	

Expected Sequence 1.10 (OPEN CHANNEL, ME is busy on another call related to CSD)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.10.1	
4	ME → USER	ME displays "Not busy" and prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456p1p2"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.10.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1	
12	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.10.1	[ME currently unable to process command]

PROACTIVE COMMAND: SET UP CALL 1.10.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Not busy"
    Address
        TON: International
        NPI: ISDN / telephone numbering plan
        Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	1E	81	03	01	10	00	82	02	81	83	85
	08	4E	6F	74	20	62	75	73	79	86	09	91
	10	32	04	21	43	65	1C	2C				

TERMINAL RESPONSE: SET UP CALL 1.10.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: OPEN CHANNEL 1.10.1

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        ME currently unable to process command
        Additional info:       ME currently busy on call
Bearer description
        Bearer type:           CSD
        Bearer parameter
        Data rate:             9600bps V.32
        Bearer service:        data circuit asynchronous UDI
        Connection element:    non-transparent
Buffer size                    1400 bytes
```

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	20
	02	B5	04	01	07	00	01	B9	02	05	78	

27.22.4.27.5.1.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.10.

27.22.4.27.2   Open Channel (related to GPRS)

27.22.4.27.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.27.2.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111[15] clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 9.2, clause 8.2, clause 8.15, clause 8.31 and clause 8.70..

27.22.4.27.2.3   Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (OK); or

- TERMINAL RESPONSE (Command performed with modification); or

- TERMINAL RESPONSE (User did not accept the proactive command);

- TERMINAL RESPONSE (ME currently unable to process command);

to the UICC after the ME receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

27.22.4.27.2.4   Method of test

27.22.4.27.2.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.2.4.2   Procedure

Expected Sequence 2.1 (OPEN CHANNEL, immediate link establishment, GPRS, no local address, no alpha identifier, no network access name)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.1.1	
4	ME → user	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.1.1

Logically:

Command details		
	Command number:	1
	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	UICC
	Destination device:	ME
Bearer		
	Bearer type:	GPRS

Bearer parameter:
  Precedence Class: 02
  Delay Class: 04
  Reliability Class: 05
  Peak throughput class: 05
  Mean throughput class: 16
  Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1400
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
  Transport format: UDP
  Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	05	78
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.1.1

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: ME
  Destination device: UICC
Result
General Result: Command performed successfully
  Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
  Bearer type: GPRS
  Bearer parameter:
  Precedence Class: 02
  Delay Class: 04
  Reliability Class: 05
  Peak throughput class: 05
  Mean throughput class: 16
  Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

Expected Sequence 2.2 (OPEN CHANNEL, immediate link establishment GPRS, no alpha identifier, with network access name)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.2.1	
4	ME → user	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.2.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400
    Network access name: .TestGp.rs
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	05	78
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
        Device identities
        Source device: ME
        Destination device: UICC

Result
    General Result: Command performed successfully
Channel status   Channel identifier 1 and link established or PDP context activated
Bearer Description:
    Bearer Type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size   1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

Expected Sequence 2.3 (OPEN CHANNEL, immediate link establishment, GPRS, with alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.3.1	
4	ME → user	Confirmation phase with alpha ID	'Open ID'
5	user → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.3.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier   Open ID
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400
    Network access name: .TestGp.rs
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP

Port number: 44444
Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	4B	81	03	01	40	01	82	02	81	82	05
	07	4F	70	65	6E	20	49	44	35	07	02	02
	04	05	05	10	02	39	02	05	78	47	0A	06
	54	65	73	74	47	70	02	72	73	0D	08	F4
	55	73	65	72	4C	6F	67	0D	08	F4	55	73
	65	72	50	77	64	3C	03	01	AD	9C	3E	05
	21	01	01	01	01							

Expected Sequence 2.4 (OPEN CHANNEL, immediate link establishment, GPRS, with null alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.4.1	
4	ME → user	Confirmation phase	[The ME should not give any information]
5	user → ME	The user confirms	[Only if the ME asks for user confirmation]
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.4.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Alpha Identifier   Null
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400
    Network access name: .   TestGp.rs
    Other Address
        Length: 00
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01

ETSI

Coding:

BER-TLV:	D0	46	81	03	01	40	01	82	02	81	82	05
	00	35	07	02	02	04	05	05	10	02	39	02
	05	78	47	0A	06	54	65	73	74	47	70	02
	6F	67	3E	00	0D	08	F4	55	73	65	72	4C
	6F	67	0D	08	F4	55	73	65	72	50	77	64
	3C	03	01	AD	9C	3E	05	21	01	01	01	01

Expected Sequence 2.5 (OPEN CHANNEL, immediate link establishment, GPRS, command performed with modifications (buffer size))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.5.1	
4	ME → user	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.5.1	[Command performed with modification]

PROACTIVE COMMAND: OPEN CHANNEL 2.5.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 2000
    Network access name: .TestGp.rs
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	07	D0
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.5.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed with modifications (07)
    Channel status   Channel identifier 1 and link established or PDP context activated
    Bearer description
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	07
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

Expected Sequence 2.6 Void

Expected Sequence 2.7 (OPEN CHANNEL, immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.7.1	
4	ME → user	Confirmation phase with alpha ID	[The ME shall display 'Open ID']
5	user → ME	The user rejects	
6	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.7.1	[User did not accept the proactive command]

PROACTIVE COMMAND: OPEN CHANNEL 2.7.1

Logically:

    Command details

Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	3F	81	03	01	40	01	82	02	81	82	05
	07	4F	70	65	6E	20	49	44	35	07	02	02
	04	05	05	10	02	39	02	05	78	0D	08	F4
	55	73	65	72	4C	6F	67	0D	08	F4	55	73
	65	72	50	77	64	3C	03	01	AD	9C	3E	05
	21	01	01	01	01							

TERMINAL RESPONSE: OPEN CHANNEL 2.7.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: User did not accept the proactive command
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	22
	35	07	02	02	04	05	05	10	02	39	02	05
	78											

Expected Sequence 2.8 (OPEN CHANNEL, immediate link establishment, GPRS, ME busy on call)

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call	
2	ME → USS	SETUP CALL	
3	USS → ME	CONNECTED	
4	UICC → ME	PROACTIVE COMMAND PENDING	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.8.1	
7	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.8.1	[ME busy on call]

PROACTIVE COMMAND: OPEN CHANNEL 2.8.1

Logically:
Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	05	78
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.8.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL

	Command qualifier:	immediate link establishment

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: ME currently unable to process command
    Additional info: ME busy on call
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	20
	02	35	07	02	02	04	05	05	10	02	39	02
	05	78										

27.22.4.27.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.8.

27.22.4.27.3 Open Channel (default bearer)

TBD

27.22.4.27.4 Open Channel (Local Bearer)

TBD

27.22.4.27.5 Open Channel (GPRS, support of Text Attribute)

27.22.4.27.5.1 Open Channel (GPRS, support of Text Attribute – Left Alignment)

27.22.4.27.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.1.3 Test purpose

To verify that the ME displays an alpha identifier according to the left alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.1.4   Method of test

27.22.4.27.5.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.1.4.2   Procedure

Expected Sequence 5.1 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.1.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with left alignment]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.1.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.1.2	
16	ME → USER	Confirmation phase with alpha ID	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/19, no alignment change will take place]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.1.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.1.1

Logically:

```
    Command details
            Command number:        1
            Command type:          OPEN CHANNEL
            Command qualifier:     immediate link establishment
    Device identities
            Source device:         UICC
            Destination device:    ME
    Alpha Identifier               "Open ID 1"
    Bearer
            Bearer type:           GPRS
            Bearer parameter:
            Precedence Class:      02
            Delay Class:           04
            Reliability Class:     05
            Peak throughput class: 05
```

Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address   01.01.01.01
Text Attribute
        Formatting position: 0
        Formatting length: 9
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.1.2

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier   "Open ID 2"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: CLOSE CHANNEL
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device:Channel
    Alpha Identifier   "Close ID"

Coding:

BER-TLV:	D0	14	81	03	01	41	00	82	02	81	21
	85	08	43	6C	6F	73	65	20	49	44	

TERMINAL RESPONSE: OPEN CHANNEL 5.1.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
    General Result: Command performed successfully
        Channel status   Channel identifier 1 and link established or PDP context activated
    Bearer description
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1

Logically:

Command details
      Command number: 1
      Command type: CLOSE CHANNEL
      Command qualifier: RFU
Device identities
      Source device: ME
      Destination device: UICC
Result
      General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.27.5.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.1.

27.22.4.27.5.2 Open Channel (GPRS, support of Text Attribute – Center Alignment)

27.22.4.27.5.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.2.3 Test purpose

To verify that the ME displays an alpha identifier according to the center alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.2.4 Method of test

27.22.4.27.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

      Precedence Class: 02
      Delay Class: 04
      Reliability Class: 05
      Peak throughput class: 05
      Mean throughput class: 16
      Packet data protocol: 02 (IP)
GPRS Parameters

      Network access name: TestGp.rs
      User login: UserLog

User password: UserPwd
UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.27.5.2.4.2 Procedure

Expected Sequence 5.2 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.2.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with center alignment]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.2.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.2.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.2.2	
16	ME → USER	Confirmation phase with alpha ID	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/19, no alignment change will take place]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.2.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.2.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID 1"

Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address   01.01.01.01
Text Attribute
        Formatting position: 0
        Formatting length: 9
        Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	01
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.2.2

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier   "Open ID 2"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)

Text String: UserPwd (User password)
UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.2.1

Logically:

    Command details
            Command number: 1
            Command type: OPEN CHANNEL
            Command qualifier: immediate link establishment
    Device identities
            Source device: ME
            Destination device: UICC
    Result
    General Result: Command performed successfully
            Channel status   Channel identifier 1 and link established or PDP context activated
    Bearer description
            Bearer type: GPRS
            Bearer parameter:
            Precedence Class: 02
            Delay Class: 04
            Reliability Class: 05
            Peak throughput class: 05
            Mean throughput class: 16
            Packet data protocol: 02 (IP)
    Buffer
            Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.2.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.2.

27.22.4.27.5.3   Open Channel (GPRS, support of Text Attribute – Right Alignment)

27.22.4.27.5.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.27.5.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.3.3 Test purpose

To verify that the ME displays an alpha identifier according to the right alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.3.4 Method of test

27.22.4.27.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.3.4.2   Procedure

Expected Sequence 5.3 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.3.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with right alignment]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.3.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.3.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.3.2	
16	ME → USER	Confirmation phase with alpha ID	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/19, no alignment change will take place]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.3.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.3.1

Logically:

```
    Command details
            Command number:        1
            Command type:          OPEN CHANNEL
            Command qualifier:     immediate link establishment
    Device identities
            Source device:         UICC
            Destination device:    ME
    Alpha Identifier               "Open ID 1"
    Bearer
            Bearer type:           GPRS
            Bearer parameter:
            Precedence Class:      02
            Delay Class:           04
            Reliability Class:     05
            Peak throughput class: 05
```

> Mean throughput class: 16
> Packet data protocol: 02 (IP)
Buffer
> Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
> Transport format: UDP
> Port number: 44444
Data destination address   01.01.01.01
Text Attribute
> > Formatting position: 0
> > Formatting length: 9
> > Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
> Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	02
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.3.2

Logically:

Command details
> Command number: 1
> Command type: OPEN CHANNEL
> Command qualifier: immediate link establishment
Device identities
> Source device: UICC
> Destination device: ME
Alpha Identifier   "Open ID 2"
Bearer
> Bearer type: GPRS
> Bearer parameter:
> Precedence Class: 02
> Delay Class: 04
> Reliability Class: 05
> Peak throughput class: 05
> Mean throughput class: 16
> Packet data protocol: 02 (IP)
Buffer
> Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
> Transport format: UDP
> Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.3.1

Logically:

```
Command details
        Command number:         1
        Command type:           OPEN CHANNEL
        Command qualifier:      immediate link establishment
Device identities
        Source device:          ME
        Destination device:     UICC
Result
General Result:                 Command performed successfully
        Channel status          Channel identifier 1 and link established or PDP context activated
Bearer description
        Bearer type:            GPRS
        Bearer parameter:
        Precedence Class:       02
        Delay Class:            04
        Reliability Class:      05
        Peak throughput class:  05
        Mean throughput class:  16
        Packet data protocol:   02 (IP)
Buffer
        Buffer size:            1400
```

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.3.

27.22.4.27.5.4 Open Channel (GPRS, support of Text Attribute – Large Font Size)

27.22.4.27.5.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.4.3 Test purpose

To verify that the ME displays an alpha identifier according to the large font size text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.4.4   Method of test

27.22.4.27.5.4.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.4.4.2   Procedure

**Expected Sequence 5.4 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute –
Large Font Size)**

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with large font size]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.2	
16	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
25	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.4.1	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.1	
28	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with large font size]
29	USER → ME	The user confirms	
30	ME → USS	SETUP CALL	
31	USS → ME	CONNECTED	
32	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
34	ME → UICC	FETCH	
35	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
36	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.3	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.3	
40	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
41	USER → ME	The user confirms	

42	ME → USS	SETUP CALL	
43	USS → ME	CONNECTED	
44	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
48	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.4.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier   "Open ID 1"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address   01.01.01.01
Text Attribute
        Formatting position: 0
        Formatting length: 9
        Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	04
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.4.2

Logically:

```
    Command details
        Command number:         1
        Command type:           OPEN CHANNEL
        Command qualifier:      immediate link establishment
    Device identities
        Source device:          UICC
        Destination device:     ME
    Alpha Identifier            "Open ID 2"
    Bearer
        Bearer type:            GPRS
        Bearer parameter:
        Precedence Class:       02
        Delay Class:            04
        Reliability Class:      05
        Peak throughput class:  05
        Mean throughput class:  16
        Packet data protocol:   02 (IP)
    Buffer
        Buffer size:            1400
    Network access name:        .TestGp.rs
    Text String:                UserLog (User login)
    Text String:                UserPwd (User password)
    UICC/ME interface transport level
        Transport format:       UDP
        Port number:            44444
    Data destination address    01.01.01.01
    Text Attribute
                Formatting position: 0
                Formatting length:   9
                Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
    Colour:         Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.4.3

Logically:

```
    Command details
        Command number:         1
        Command type:           OPEN CHANNEL
        Command qualifier:      immediate link establishment
    Device identities
        Source device:          UICC
        Destination device:     ME
    Alpha Identifier            "Open ID 3"
    Bearer
        Bearer type:            GPRS
        Bearer parameter:
        Precedence Class:       02
```

	Delay Class:	04
	Reliability Class:	05
	Peak throughput class:	05
	Mean throughput class:	16
	Packet data protocol:	02 (IP)
Buffer		
	Buffer size:	1400
Network access name:		.TestGp.rs
Text String:		UserLog (User login)
Text String:		UserPwd (User password)
UICC/ME interface transport level		
	Transport format:	UDP
	Port number:	44444
Data destination address		01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.4.1

Logically:

Command details		
	Command number:	1
	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
General Result:		Command performed successfully
	Channel status	Channel identifier 1 and link established or PDP context activated
Bearer description		
	Bearer type:	GPRS
	Bearer parameter:	
	Precedence Class:	02
	Delay Class:	04
	Reliability Class:	05
	Peak throughput class:	05
	Mean throughput class:	16
	Packet data protocol:	02 (IP)
Buffer		
	Buffer size:	1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.4.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.4.

27.22.4.27.5.5   Open Channel (GPRS, support of Text Attribute – Small Font Size)

27.22.4.27.5.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.27.5.5.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.5.3   Test purpose

To verify that the ME displays an alpha identifier according to the small font size text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.5.4   Method of test

27.22.4.27.5.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.5.4.2 Procedure

**Expected Sequence 5.5 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute –
Small Font Size)**

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with small font size]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.2	
16	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
25	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.5.1	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.1	
28	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with small font size]
29	USER → ME	The user confirms	
30	ME → USS	SETUP CALL	
31	USS → ME	CONNECTED	
32	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
34	ME → UICC	FETCH	
35	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
36	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.3	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.3	
40	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
41	USER → ME	The user confirms	

42	ME → USS	SETUP CALL	
43	USS → ME	CONNECTED	
44	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
48	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.5.1

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         UICC
        Destination device:    ME
Alpha Identifier               "Open ID 1"
Bearer
        Bearer type:           GPRS
        Bearer parameter:
        Precedence Class:      02
        Delay Class:           04
        Reliability Class:     05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol:  02 (IP)
Buffer
        Buffer size:           1400
Network access name:           .TestGp.rs
Text String:                   UserLog (User login)
Text String:                   UserPwd (User password)
UICC/ME interface transport level
        Transport format:      UDP
        Port number:           44444
Data destination address       01.01.01.01
Text Attribute
                Formatting position: 0
                Formatting length:   9
                Formatting mode:     Left Alignment, Small Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
Colour:                        Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	08
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.5.2

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier   "Open ID 2"
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400
    Network access name: .TestGp.rs
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01
    Text Attribute
                Formatting position: 0
                Formatting length: 9
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.5.3

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier   "Open ID 3"
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02

Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.5.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.5.

27.22.4.27.5.6 Open Channel (GPRS, support of Text Attribute – Bold On)

27.22.4.27.5.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.6.3 Test purpose

To verify that the ME displays an alpha identifier according to the bold text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.6.4 Method of test

27.22.4.27.5.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.6.4.2 Procedure

Expected Sequence 5.6 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold on]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.2	
16	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold off]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
25	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.6.1	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.1	
28	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold on]
29	USER → ME	The user confirms	
30	ME → USS	SETUP CALL	
31	USS → ME	CONNECTED	
32	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
34	ME → UICC	FETCH	
35	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
36	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.3	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.3	
40	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold off]
41	USER → ME	The user confirms	

42	ME → USS	SETUP CALL	
43	USS → ME	CONNECTED	
44	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
48	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.6.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID 1"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01
Text Attribute
    Formatting position: 0
    Formatting length: 9
    Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	10
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.6.2

Logically:

```
    Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
    Device identities
        Source device:         UICC
        Destination device:    ME
    Alpha Identifier           "Open ID 2"
    Bearer
        Bearer type:           GPRS
        Bearer parameter:
        Precedence Class:      02
        Delay Class:           04
        Reliability Class:     05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol:  02 (IP)
    Buffer
        Buffer size:           1400
    Network access name:       .TestGp.rs
    Text String:               UserLog (User login)
    Text String:               UserPwd (User password)
    UICC/ME interface transport level
        Transport format:      UDP
        Port number:           44444
    Data destination address   01.01.01.01
    Text Attribute
                Formatting position: 0
                Formatting length:   9
                Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
    Colour:         Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.6.3

Logically:

```
    Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
    Device identities
        Source device:         UICC
        Destination device:    ME
    Alpha Identifier           "Open ID 3"
    Bearer
        Bearer type:           GPRS
        Bearer parameter:
        Precedence Class:      02
```

Delay Class:	04			
Reliability Class:	05			
Peak throughput class:	05			
Mean throughput class:	16			
Packet data protocol:	02 (IP)			
Buffer				
Buffer size:	1400			
Network access name:	.TestGp.rs			
Text String:	UserLog (User login)			
Text String:	UserPwd (User password)			
UICC/ME interface transport level				
Transport format:	UDP			
Port number:	44444			
Data destination address	01.01.01.01			

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.6.1

Logically:

Command details		
Command number:	1	
Command type:	OPEN CHANNEL	
Command qualifier:	immediate link establishment	
Device identities		
Source device:	ME	
Destination device:	UICC	
Result		
General Result:	Command performed successfully	
Channel status	Channel identifier 1 and link established or PDP context activated	
Bearer description		
Bearer type:	GPRS	
Bearer parameter:		
Precedence Class:	02	
Delay Class:	04	
Reliability Class:	05	
Peak throughput class:	05	
Mean throughput class:	16	
Packet data protocol:	02 (IP)	
Buffer		
Buffer size:	1400	

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.6.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.6.

27.22.4.27.5.7   Open Channel (GPRS, support of Text Attribute – Italic On)

27.22.4.27.5.7.1   Definition and applicability

See clause 3.2.2.

27.22.4.27.5.7.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.7.3   Test purpose

To verify that the ME displays an alpha identifier according to the italic text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.7.4   Method of test

27.22.4.27.5.7.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.7.4.2   Procedure

Expected Sequence 5.7 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic on]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.2	
16	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic off]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
25	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.1	
28	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic on]
29	USER → ME	The user confirms	
30	ME → USS	SETUP CALL	
31	USS → ME	CONNECTED	
32	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
34	ME → UICC	FETCH	
35	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
36	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.3	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.3	
40	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic off]
41	USER → ME	The user confirms	

42	ME → USS	SETUP CALL	
43	USS → ME	CONNECTED	
44	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
48	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.7.1

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         UICC
        Destination device:    ME
Alpha Identifier               "Open ID 1"
Bearer
        Bearer type:           GPRS
        Bearer parameter:
        Precedence Class:      02
        Delay Class:           04
        Reliability Class:     05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol:  02 (IP)
Buffer
        Buffer size:           1400
Network access name:           .TestGp.rs
Text String:                   UserLog (User login)
Text String:                   UserPwd (User password)
UICC/ME interface transport level
        Transport format:      UDP
        Port number:           44444
Data destination address       01.01.01.01
Text Attribute
                Formatting position: 0
                Formatting length:   9
                Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic On, Underline Off,
                Strikethrough Off
Colour:                Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	20
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.7.2

Logically:

        Command details
                Command number: 1
                Command type: OPEN CHANNEL
                Command qualifier: immediate link establishment
        Device identities
                Source device: UICC
                Destination device: ME
        Alpha Identifier   "Open ID 2"
        Bearer
                Bearer type: GPRS
                Bearer parameter:
                Precedence Class: 02
                Delay Class: 04
                Reliability Class: 05
                Peak throughput class: 05
                Mean throughput class: 16
                Packet data protocol: 02 (IP)
        Buffer
                Buffer size: 1400
        Network access name: .TestGp.rs
        Text String: UserLog (User login)
        Text String: UserPwd (User password)
        UICC/ME interface transport level
                Transport format: UDP
                Port number: 44444
        Data destination address   01.01.01.01
        Text Attribute
                        Formatting position: 0
                        Formatting length: 9
                        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                        Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.7.3

Logically:

        Command details
                Command number: 1
                Command type: OPEN CHANNEL
                Command qualifier: immediate link establishment
        Device identities
                Source device: UICC
                Destination device: ME
        Alpha Identifier   "Open ID 3"
        Bearer
                Bearer type: GPRS
                Bearer parameter:
                Precedence Class: 02

Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

Buffer

Buffer size:	1400

Network access name:	.TestGp.rs
Text String:	UserLog (User login)
Text String:	UserPwd (User password)

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444

Data destination address	01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.7.1

Logically:

Command details

Command number:	1
Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment

Device identities

Source device:	ME
Destination device:	UICC

Result

General Result:	Command performed successfully
Channel status	Channel identifier 1 and link established or PDP context activated

Bearer description

Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

Buffer

Buffer size:	1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.7.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.7.

27.22.4.27.5.8 Open Channel (GPRS, support of Text Attribute – Underline On)

27.22.4.27.5.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.8.3 Test purpose

To verify that the ME displays an alpha identifier according to the underline text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.8.4 Method of test

27.22.4.27.5.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.8.4.2   Procedure

Expected Sequence 5.8 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline on]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.2	
16	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline off]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
25	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.8.1	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.1	
28	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline on]
29	USER → ME	The user confirms	
30	ME → USS	SETUP CALL	
31	USS → ME	CONNECTED	
32	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
34	ME → UICC	FETCH	
35	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
36	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.3	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.3	
40	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline off]
41	USER → ME	The user confirms	

42	ME → USS	SETUP CALL	
43	USS → ME	CONNECTED	
44	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
48	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.8.1

Logically:

    Command details
            Command number: 1
            Command type: OPEN CHANNEL
            Command qualifier: immediate link establishment
    Device identities
            Source device: UICC
            Destination device: ME
    Alpha Identifier   "Open ID 1"
    Bearer
            Bearer type: GPRS
            Bearer parameter:
            Precedence Class: 02
            Delay Class: 04
            Reliability Class: 05
            Peak throughput class: 05
            Mean throughput class: 16
            Packet data protocol: 02 (IP)
    Buffer
            Buffer size: 1400
    Network access name: .TestGp.rs
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
            Transport format: UDP
            Port number: 44444
    Data destination address   01.01.01.01
    Text Attribute
                    Formatting position: 0
                    Formatting length: 9
                    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	40
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.8.2

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier   "Open ID 2"
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400
    Network access name: .TestGp.rs
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01
    Text Attribute
        Formatting position: 0
        Formatting length: 9
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.8.3

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier   "Open ID 3"
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02

Delay Class:	04	
Reliability Class:	05	
Peak throughput class:	05	
Mean throughput class:	16	
Packet data protocol:	02 (IP)	

Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.8.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC
Result
General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established or PDP context activated
Bearer description
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.8.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 5.8.

27.22.4.27.5.9   Open Channel (GPRS, support of Text Attribute – Strikethrough On)

27.22.4.27.5.9.1   Definition and applicability

See clause 3.2.2.

27.22.4.27.5.9.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.9.3   Test purpose

To verify that the ME displays an alpha identifier according to the strikethrough text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.9.4   Method of test

27.22.4.27.5.9.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.9.4.2   Procedure

Expected Sequence 5.9 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough on]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.2	
16	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough off]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
25	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.1	
28	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough on]
29	USER → ME	The user confirms	
30	ME → USS	SETUP CALL	
31	USS → ME	CONNECTED	
32	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
34	ME → UICC	FETCH	
35	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
36	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.3	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.3	
40	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough off]
41	USER → ME	The user confirms	

42	ME → USS	SETUP CALL	
43	USS → ME	CONNECTED	
44	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
48	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.9.1

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Alpha Identifier   "Open ID 1"
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1400
    Network access name: .TestGp.rs
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01
    Text Attribute
                Formatting position: 0
                Formatting length: 9
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	80
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.9.2

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         UICC
        Destination device:    ME
Alpha Identifier               "Open ID 2"
Bearer
        Bearer type:           GPRS
        Bearer parameter:
        Precedence Class:      02
        Delay Class:           04
        Reliability Class:     05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol:  02 (IP)
Buffer
        Buffer size:           1400
Network access name:           .TestGp.rs
Text String:                   UserLog (User login)
Text String:                   UserPwd (User password)
UICC/ME interface transport level
        Transport format:      UDP
        Port number:           44444
Data destination address       01.01.01.01
Text Attribute
                Formatting position: 0
                Formatting length:   9
                Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
Colour:         Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.9.3

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         UICC
        Destination device:    ME
Alpha Identifier               "Open ID 3"
Bearer
        Bearer type:           GPRS
        Bearer parameter:
        Precedence Class:      02
```

	Delay Class:	04
	Reliability Class:	05
	Peak throughput class:	05
	Mean throughput class:	16
	Packet data protocol:	02 (IP)
Buffer		
	Buffer size:	1400
Network access name:		.TestGp.rs
Text String:		UserLog (User login)
Text String:		UserPwd (User password)
UICC/ME interface transport level		
	Transport format:	UDP
	Port number:	44444
Data destination address		01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.9.1

Logically:

Command details		
	Command number:	1
	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
General Result:		Command performed successfully
	Channel status	Channel identifier 1 and link established or PDP context activated
Bearer description		
	Bearer type:	GPRS
	Bearer parameter:	
	Precedence Class:	02
	Delay Class:	04
	Reliability Class:	05
	Peak throughput class:	05
	Mean throughput class:	16
	Packet data protocol:	02 (IP)
Buffer		
	Buffer size:	1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.9.

27.22.4.27.5.10   Open Channel (GPRS, support of Text Attribute – Foreground and Background Colour)

27.22.4.27.5.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.27.5.10.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.27.5.10.3   Test purpose

To verify that the ME displays an alpha identifier according to the foreground and background colour text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.10.4   Method of test

27.22.4.27.5.10.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.10.4.2   Procedure

**Expected Sequence 5.10 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute –
Foreground and Background Colour)**

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.10.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with foreground and background colour according to the text attribute]
5	USER → ME	The user confirms	
6	ME → USS	SETUP CALL	
7	USS → ME	CONNECTED	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.10.1	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.10.2	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.10.2	
16	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with ME"s default foreground and background colour]
17	USER → ME	The user confirms	
18	ME → USS	SETUP CALL	
19	USS → ME	CONNECTED	
20	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.10.1	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
24	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.10.1

Logically:

```
    Command details
            Command number:        1
            Command type:          OPEN CHANNEL
            Command qualifier:     immediate link establishment
    Device identities
            Source device:         UICC
            Destination device:    ME
    Alpha Identifier               "Open ID 1"
    Bearer
            Bearer type:           GPRS
            Bearer parameter:
            Precedence Class:      02
            Delay Class:           04
            Reliability Class:     05
            Peak throughput class: 05
```

Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01
Text Attribute
    Formatting position: 0
    Formatting length: 9
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.10.2

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	02	04	05	05	10	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.10.1

Logically:

Command details
 Command number: 1
 Command type: OPEN CHANNEL
 Command qualifier: immediate link establishment
Device identities
 Source device: ME
 Destination device: UICC
Result
General Result: Command performed successfully
 Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
 Bearer type: GPRS
 Bearer parameter:
 Precedence Class: 02
 Delay Class: 04
 Reliability Class: 05
 Peak throughput class: 05
 Mean throughput class: 16
 Packet data protocol: 02 (IP)
Buffer
 Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

27.22.4.27.5.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.10.

27.22.4.28 CLOSE CHANNEL

27.22.4.28.1 CLOSE CHANNEL(normal)

27.22.4.28.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.1.3   Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or

- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the UICC after the ME receives the CLOSE CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the ME and the network capabilities against asked parameters by the UICC.

27.22.4.28.1.4   Method of Test

27.22.4.28.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.1.4.2   Procedure

Expected sequence 1.1 (CLOSE CHANNEL, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Address
        TON: International number
        NPI: ISDN / telephone numbering plan
        Dialling number string "112233445566778"
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 9600bps V.32
        Bearer service: data circuit asynchronous UDI
        Connection element: non-transparent
    Buffer size   1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 9600bps V.32
        Bearer service: data circuit asynchronous
        Connection element: non-transparent
    Buffer size   1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Bearer
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1000
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

```
Command details
      Command number:        1
      Command type:          OPEN CHANNEL
      Command qualifier:     immediate link establishment
Device identities
      Source device:         ME
      Destination device:    UICC
Result
      General Result:        Command performed successfully
Channel status             Channel identifier 1 and link established or PDP context activated
Bearer description
      Bearer type:           GPRS
      Bearer parameter:
      Precedence Class:      02
      Delay Class:           04
      Reliability Class:     05
      Peak throughput class: 05
      Mean throughput class: 16
      Packet data protocol:  02 (IP)
Buffer
      Buffer size:           1000
```

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1

Logically:

```
Command details
      Command number:        1
      Command type:          CLOSE CHANNEL
      Command qualifier:     RFU
Device identities
      Source device:         UICC
      Destination device:    Channel 1
```

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	21

TERMINAL RESPONSE: CLOSE CHANNEL 1.1.1

Logically:

```
Command details
      Command number:        1
```

	Command type:	CLOSE CHANNEL	
	Command qualifier:	RFU	
Device identities			
	Source device:	ME	
	Destination device:	UICC	
Result			
	General Result:	Command performed successfully	

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

Expected sequence 1.2 (CLOSE CHANNEL, with an invalid channel identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1	
11	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.2.1	[Invalid channel number]

PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1

Logically:

Command details		
	Command number:	1
	Command type:	CLOSE CHANNEL
	Command qualifier:	RFU
Device identities		
	Source device:	UICC
	Destination device:	Channel 2

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	22

TERMINAL RESPONSE: CLOSE CHANNEL 1.2.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Bearer Independent Protocol error
    Additional Result: Channel identifier not valid

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	02	3A
	03											

Expected sequence 1.3 (CLOSE CHANNEL, on an already closed channel)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.3.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1	
16	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.3.1	[Channel closed]

PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	21

TERMINAL RESPONSE: CLOSE CHANNEL 1.3.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Bearer Independent Protocol error
Additional Result: Channel closed

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	02	3A
	02											

27.22.4.28.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.28.2 CLOSE CHANNEL (support of Text Attribute)

27.22.4.28.2.1 CLOSE CHANNEL (support of Text Attribute – Left Alignment)

27.22.4.28.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.1.4 Method of Test

27.22.4.28.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)

GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd

UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.2.1.4.2   Procedure

Expected sequence 2.1 (CLOSE CHANNEL, with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1	[alpha identifier is displayed with left alignment]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.1.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/20, no alignment change will take place]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device:Channel 1
Alpha Identifier   "Close ID 1"
Text Attribute
        Formatting position: 0
        Formatting length: 10
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device:Channel 1
Alpha Identifier   "Close ID 2"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.1.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.1.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

27.22.4.28.2.2   CLOSE CHANNEL (support of Text Attribute – Center Alignment)

27.22.4.28.2.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.28.2.2.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.2.3   Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.2.4   Method of Test

27.22.4.28.2.2.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.2.2.4.2 Procedure

Expected sequence 2.2 (CLOSE CHANNEL, with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.2.1	[alpha identifier is displayed with center alignment]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.2.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.2.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.2.2	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/20, no alignment change will take place]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.2.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.2.1

Logically:

```
Command details
        Command number:        1
        Command type:          CLOSE CHANNEL
        Command qualifier:     RFU
Device identities
        Source device:         UICC
        Destination device:Channel 1
Alpha Identifier               "Close ID 1"
Text Attribute
                Formatting position: 0
                Formatting length:   10
                Formatting mode:     Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                Strikethrough Off
Colour:         Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	01	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.2.2

Logically:

```
Command details
        Command number:        1
        Command type:          CLOSE CHANNEL
        Command qualifier:     RFU
Device identities
        Source device:         UICC
        Destination device:Channel 1
Alpha Identifier               "Close ID 2"
```

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.2.1

Logically:

```
Command details
        Command number:        1
        Command type:          CLOSE CHANNEL
        Command qualifier:     RFU
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.2.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

27.22.4.28.2.3   CLOSE CHANNEL (support of Text Attribute – Right Alignment)

27.22.4.28.2.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.28.2.3.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.3.3   Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.3.4   Method of Test

27.22.4.28.2.3.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

       Precedence Class: 02
       Delay Class: 04
       Reliability Class: 05
       Peak throughput class: 05
       Mean throughput class: 16
       Packet data protocol: 02 (IP)
GPRS Parameters

       Network access name: TestGp.rs
       User login: UserLog
       User password: UserPwd
UICC/ME interface transport level

       Transport format: UDP
       Port number: 44444
       Data destination address 01.01.01.01

27.22.4.28.2.3.4.2 Procedure

Expected sequence 2.3 (CLOSE CHANNEL, with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.3.1	[alpha identifier is displayed with right alignment]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.3.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.3.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.3.2	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/20, no alignment change will take place]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.3.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.3.1

Logically:

Command details

Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	02	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.3.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.3.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.3.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

27.22.4.28.2.4 CLOSE CHANNEL (support of Text Attribute – Large Font Size)

27.22.4.28.2.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.4.3 Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.4.4 Method of Test

27.22.4.28.2.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.2.4.4.2 Procedure

Expected sequence 2.4 (CLOSE CHANNEL, with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1	[alpha identifier is displayed with large font size]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.2	[alpha identifier is displayed with normal font size]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]

25	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
28	ME → USER	The ME may display channel opening information	
29	ME → USS	SETUP CALL	
30	USS → ME	CONNECTED	
31	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
32	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.1	
33	ME → UICC	FETCH	
34	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1	[alpha identifier is displayed with large font size]
35	ME → USS	DISCONNECT	[MO DISCONNECT]
36	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
40	ME → USER	The ME may display channel opening information	
41	ME → USS	SETUP CALL	
42	USS → ME	CONNECTED	
43	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
44	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.3	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.3	[alpha identifier is displayed with normal font size]
47	ME → USS	DISCONNECT	[MO DISCONNECT]
48	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1

Logically:

    Command details
        Command number: 1
        Command type: CLOSE CHANNEL

       Command qualifier: RFU

Device identities
       Source device: UICC
       Destination device:Channel 1

Alpha Identifier   "Close ID 1"

Text Attribute
             Formatting position: 0
             Formatting length: 10
             Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off,
             Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	04	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.2

Logically:

Command details
       Command number: 1
       Command type: CLOSE CHANNEL
       Command qualifier: RFU

Device identities
       Source device: UICC
       Destination device:Channel 1

Alpha Identifier   "Close ID 2"

Text Attribute
             Formatting position: 0
             Formatting length: 10
             Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
             Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.3

Logically:

Command details
       Command number: 1
       Command type: CLOSE CHANNEL
       Command qualifier: RFU

Device identities
       Source device: UICC
       Destination device:Channel 1

Alpha Identifier   "Close ID 3"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.4.1

Logically:

    Command details
            Command number: 1
            Command type: CLOSE CHANNEL
            Command qualifier: RFU
    Device identities
            Source device: ME
            Destination device: UICC
    Result
            General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.4.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

27.22.4.28.2.5   CLOSE CHANNEL (support of Text Attribute – Small Font Size)

27.22.4.28.2.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.28.2.5.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.5.3   Test purpose

To verify that the ME shall display the alpha identifier according to the small font size text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.5.4   Method of Test

27.22.4.28.2.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.2.5.4.2   Procedure

Expected sequence 2.5 (CLOSE CHANNEL, with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1	[alpha identifier is displayed with small font size]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.2	[alpha identifier is displayed with normal font size]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]

25	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
28	ME → USER	The ME may display channel opening information	
29	ME → USS	SETUP CALL	
30	USS → ME	CONNECTED	
31	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
32	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.1	
33	ME → UICC	FETCH	
34	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1	[alpha identifier is displayed with small font size]
35	ME → USS	DISCONNECT	[MO DISCONNECT]
36	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
40	ME → USER	The ME may display channel opening information	
41	ME → USS	SETUP CALL	
42	USS → ME	CONNECTED	
43	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
44	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.3	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.3	[alpha identifier is displayed with normal font size]
47	ME → USS	DISCONNECT	[MO DISCONNECT]
48	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1

Logically:

    Command details
        Command number: 1
        Command type: CLOSE CHANNEL

      Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device:Channel 1
Alpha Identifier   "Close ID 1"
Text Attribute
          Formatting position: 0
          Formatting length: 10
          Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	08	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.2

Logically:

    Command details
          Command number: 1
          Command type: CLOSE CHANNEL
          Command qualifier: RFU
    Device identities
          Source device: UICC
          Destination device:Channel 1
    Alpha Identifier   "Close ID 2"
    Text Attribute
          Formatting position: 0
          Formatting length: 10
          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.3

Logically:

    Command details
          Command number: 1
          Command type: CLOSE CHANNEL
          Command qualifier: RFU
    Device identities
          Source device: UICC
          Destination device:Channel 1
    Alpha Identifier   "Close ID 3"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.5.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

27.22.4.28.2.6 CLOSE CHANNEL (support of Text Attribute – Bold On)

27.22.4.28.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.6.4 Method of Test

27.22.4.28.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

  Precedence Class: 02
  Delay Class: 04
  Reliability Class: 05
  Peak throughput class: 05
  Mean throughput class: 16
  Packet data protocol: 02 (IP)
GPRS Parameters

  Network access name: TestGp.rs
  User login: UserLog
  User password: UserPwd
UICC/ME interface transport level

  Transport format: UDP
  Port number: 44444
  Data destination address 01.01.01.01

27.22.4.28.2.6.4.2 Procedure

Expected sequence 2.6 (CLOSE CHANNEL, with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1	[alpha identifier is displayed with bold on]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.2	[alpha identifier is displayed with bold off]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]

25	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
28	ME → USER	The ME may display channel opening information	
29	ME → USS	SETUP CALL	
30	USS → ME	CONNECTED	
31	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
32	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.1	
33	ME → UICC	FETCH	
34	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1	[alpha identifier is displayed with bold on]
35	ME → USS	DISCONNECT	[MO DISCONNECT]
36	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
40	ME → USER	The ME may display channel opening information	
41	ME → USS	SETUP CALL	
42	USS → ME	CONNECTED	
43	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
44	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.3	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.3	[alpha identifier is displayed with bold off]
47	ME → USS	DISCONNECT	[MO DISCONNECT]
48	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL

       Command qualifier: RFU
    Device identities
       Source device: UICC
      Destination device:Channel 1
  Alpha Identifier   "Close ID 1"
  Text Attribute
          Formatting position: 0
          Formatting length: 10
          Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	10	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.2

Logically:

  Command details
       Command number: 1
       Command type: CLOSE CHANNEL
       Command qualifier: RFU
  Device identities
       Source device: UICC
      Destination device:Channel 1
  Alpha Identifier   "Close ID 2"
  Text Attribute
          Formatting position: 0
          Formatting length: 10
          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
  Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.3

Logically:

  Command details
       Command number: 1
       Command type: CLOSE CHANNEL
       Command qualifier: RFU
  Device identities
       Source device: UICC
      Destination device:Channel 1
  Alpha Identifier   "Close ID 3"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.6.1

Logically:

```
Command details
        Command number:        1
        Command type:          CLOSE CHANNEL
        Command qualifier:     RFU
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

27.22.4.28.2.7 CLOSE CHANNEL (support of Text Attribute – Italic On)

27.22.4.28.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.7.4 Method of Test

27.22.4.28.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.2.7.4.2 Procedure

Expected sequence 2.7 (CLOSE CHANNEL, with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1	[alpha identifier is displayed with italic on]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.2	[alpha identifier is displayed with italic off]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]

25	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
28	ME → USER	The ME may display channel opening information	
29	ME → USS	SETUP CALL	
30	USS → ME	CONNECTED	
31	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
32	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.1	
33	ME → UICC	FETCH	
34	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1	[alpha identifier is displayed with italic on]
35	ME → USS	DISCONNECT	[MO DISCONNECT]
36	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
40	ME → USER	The ME may display channel opening information	
41	ME → USS	SETUP CALL	
42	USS → ME	CONNECTED	
43	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
44	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.3	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.3	[alpha identifier is displayed with italic off]
47	ME → USS	DISCONNECT	[MO DISCONNECT]
48	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1

Logically:

Command details
     Command number: 1
     Command type: CLOSE CHANNEL

      Command qualifier: RFU
Device identities
      Source device: UICC
      Destination device:Channel 1
Alpha Identifier   "Close ID 1"
Text Attribute
          Formatting position: 0
          Formatting length: 10
          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off,
          Strikethrough Off
      Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	20	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.2

Logically:

Command details
      Command number: 1
      Command type: CLOSE CHANNEL
      Command qualifier: RFU
Device identities
      Source device: UICC
      Destination device:Channel 1
Alpha Identifier   "Close ID 2"
Text Attribute
          Formatting position: 0
          Formatting length: 10
          Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
          Strikethrough Off
      Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.3

Logically:

Command details
      Command number: 1
      Command type: CLOSE CHANNEL
      Command qualifier: RFU
Device identities
      Source device: UICC
      Destination device:Channel 1
Alpha Identifier   "Close ID 3"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.7.1

Logically:

    Command details
        Command number: 1
        Command type: CLOSE CHANNEL
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

27.22.4.28.2.8 CLOSE CHANNEL (support of Text Attribute – Underline On)

27.22.4.28.2.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.8.4 Method of Test

27.22.4.28.2.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.2.8.4.2 Procedure

Expected sequence 2.8 (CLOSE CHANNEL, with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1	[alpha identifier is displayed with underline on]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.2	[alpha identifier is displayed with underline off]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]

ETSI

25	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
28	ME → USER	The ME may display channel opening information	
29	ME → USS	SETUP CALL	
30	USS → ME	CONNECTED	
31	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
32	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.1	
33	ME → UICC	FETCH	
34	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1	[alpha identifier is displayed with underline on]
35	ME → USS	DISCONNECT	[MO DISCONNECT]
36	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
40	ME → USER	The ME may display channel opening information	
41	ME → USS	SETUP CALL	
42	USS → ME	CONNECTED	
43	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
44	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.3	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.3	[alpha identifier is displayed with underline off]
47	ME → USS	DISCONNECT	[MO DISCONNECT]
48	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1

Logically:

    Command details
            Command number: 1
            Command type: CLOSE CHANNEL

      Command qualifier: RFU
Device identities
      Source device: UICC
     Destination device:Channel 1
Alpha Identifier   "Close ID 1"
Text Attribute
        Formatting position: 0
        Formatting length: 10
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	40	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.2

Logically:

Command details
      Command number: 1
      Command type: CLOSE CHANNEL
      Command qualifier: RFU
Device identities
      Source device: UICC
     Destination device:Channel 1
Alpha Identifier   "Close ID 2"
Text Attribute
        Formatting position: 0
        Formatting length: 10
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.3

Logically:

Command details
      Command number: 1
      Command type: CLOSE CHANNEL
      Command qualifier: RFU
Device identities
      Source device: UICC
     Destination device:Channel 1
Alpha Identifier   "Close ID 3"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.8.1

Logically:

    Command details
        Command number: 1
        Command type: CLOSE CHANNEL
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

27.22.4.28.2.9 CLOSE CHANNEL (support of Text Attribute – Strikethrough On)

27.22.4.28.2.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.9.4 Method of Test

27.22.4.28.2.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.28.2.9.4.2 Procedure

Expected sequence 2.9 (CLOSE CHANNEL, with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1	[alpha identifier is displayed with strikethrough on]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.2	[alpha identifier is displayed with strikethrough off]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]

25	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
28	ME → USER	The ME may display channel opening information	
29	ME → USS	SETUP CALL	
30	USS → ME	CONNECTED	
31	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
32	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.1	
33	ME → UICC	FETCH	
34	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1	[alpha identifier is displayed with strikethrough on]
35	ME → USS	DISCONNECT	[MO DISCONNECT]
36	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
40	ME → USER	The ME may display channel opening information	
41	ME → USS	SETUP CALL	
42	USS → ME	CONNECTED	
43	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
44	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.3	
45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.3	[alpha identifier is displayed with strikethrough off]
47	ME → USS	DISCONNECT	[MO DISCONNECT]
48	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1

Logically:

    Command details
        Command number: 1
        Command type: CLOSE CHANNEL

Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	80	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"
Text Attribute
Formatting position: 0
Formatting length: 10
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.3

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 3"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.9.1

Logically:

    Command details
            Command number: 1
            Command type: CLOSE CHANNEL
            Command qualifier: RFU
    Device identities
            Source device: ME
            Destination device: UICC
    Result
            General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.9.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

27.22.4.28.2.10   CLOSE CHANNEL (support of Text Attribute – Foreground and Background Colour)

27.22.4.28.2.10.1   Definition and applicability

See clause 3.2.2.

27.22.4.28.2.10.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.28.2.10.3   Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.10.4   Method of Test

27.22.4.28.2.10.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol:02 (IP)
GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd
UICC/ME interface transport level

Transport format:UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.2.10.4.2   Procedure

Expected sequence 2.10 (CLOSE CHANNEL, with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.10.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.10.1	[alpha identifier is displayed with foreground and background colour according to the text attribute configuration]
11	ME → USS	DISCONNECT	[MO DISCONNECT]
12	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.10.1	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
16	ME → USER	The ME may display channel opening information	
17	ME → USS	SETUP CALL	
18	USS → ME	CONNECTED	
19	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.10.2	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.10.2	[alpha identifier is displayed with ME"s default foreground and background colour]
23	ME → USS	DISCONNECT	[MO DISCONNECT]
24	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.10.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.10.1

Logically:

Command details
        Command number: 1
        Command type: CLOSE CHANNEL
        Command qualifier: RFU
Device identities
        Source device: UICC
        Destination device:Channel 1
Alpha Identifier   "Close ID 1"
Text Attribute
                Formatting position: 0
                Formatting length: 10
                Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
        Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1D	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.10.2

Logically:

Command details
        Command number: 1
        Command type: CLOSE CHANNEL
        Command qualifier: RFU
Device identities
        Source device: UICC
        Destination device:Channel 1
Alpha Identifier   "Close ID 2"

Coding:

BER-TLV:	D0	16	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.10.1

Logically:

Command details
        Command number: 1
        Command type: CLOSE CHANNEL
        Command qualifier: RFU
Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.10.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

27.22.4.29   RECEIVE DATA

27.22.4.29.1   RECEIVE DATA (NORMAL)

27.22.4.29.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.29.1.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.1.3   Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or

- TERMINAL RESPONSE (ME currently unable to process command); or

- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the UICC after the ME receives the RECEIVE DATA proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the ME and the network capabilities against asked parameters by the UICC.

27.22.4.29.1.4   Method of test

27.22.4.29.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd
UICC/ME interface transport level

Transport format:UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.1.4.2   Procedure

Expected sequence 1.1 (RECEIVE DATA, already opened channel)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 1000 Bytes of data to the ME through channel 1	
13	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.1	200 Bytes
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.2	200 Bytes
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.2	
22	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.3	200 Bytes
25	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.3	
26	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.4	
27	ME → UICC	FETCH	
28	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.4	200 Bytes
29	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.4	
30	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.5	
31	ME → UICC	FETCH	
32	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.5	200 Bytes
33	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.5	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     RFU
Device identities
        Source device:         UICC
        Destination device:    ME
Event list                     Data available
```

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	09										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     RFU
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
```

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         UICC
        Destination device:    ME
Address
        TON:                   International number
        NPI:                   ISDN / telephone numbering plan
        Dialling number string "112233445566778"
Bearer description
        Bearer type:           CSD
Bearer parameter
        Data rate:             9600bps V.32
        Bearer service:        data circuit asynchronous UDI
        Connection element:    non-transparent
Buffer size                    1000
```

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04

01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details		
	Command number:	1
	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Channel status		Channel identifier 1 and link established
Bearer description		
	Bearer type:	CSD
Bearer parameter		
	Data rate:	9600bps V.32
	Bearer service:	data circuit asynchronous
	Connection element:	non-transparent
Buffer size		1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

Command details		
	Command number:	1
	Command type:	OPEN CHANNEL
	Command qualifier:	immediate link establishment
Device identities		
	Source device:	UICC
	Destination device:	ME
Bearer		
	Bearer type:	GPRS
	Bearer parameter:	
	Precedence Class:	02
	Delay Class:	04
	Reliability Class:	05
	Peak throughput class:	05
	Mean throughput class:	16
	Packet data protocol:	02 (IP)
Buffer		
	Buffer size:	1000
Text String:		UserLog (User login)
Text String:		UserPwd (User password)
UICC/ME interface transport level		
	Transport format:	UDP
	Port number:	44444
Data destination address		01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established or PDP context activated
    Bearer description
        Bearer type: GPRS
        Bearer parameter:
        Precedence Class: 02
        Delay Class: 04
        Reliability Class: 05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

Logically:

    Event list
        Event: Data available
    Device identities
        Source device: ME
        Destination device: UICC
    Channel status
        Channel status: Channel 1 open, link established
    Channel Data Length
        Channel data length: FF (more than 255 bytes are available)

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
	00	B7	01	FF								

PROACTIVE COMMAND: RECEIVE DATA 1.1.1

Logically:

    Command details

            Command number: 1
            Command type: RECEIVE DATA
            Command qualifier: RFU
    Device identities
            Source device: UICC
            Destination device: Channel 1
    Channel Data Length
            Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	01	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.2

Logically:

    Command details
            Command number: 2
            Command type: RECEIVE DATA
            Command qualifier: RFU
    Device identities
            Source device: UICC
            Destination device: Channel 1
    Channel Data Length
            Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	02	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.3

Logically:

    Command details
            Command number: 3
            Command type: RECEIVE DATA
            Command qualifier: RFU
    Device identities
            Source device: UICC
            Destination device: Channel 1
    Channel Data Length
            Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	03	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.4

Logically:

    Command details
            Command number: 4
            Command type: RECEIVE DATA
            Command qualifier: RFU
    Device identities
            Source device: UICC

       Destination device: Channel 1
   Channel Data Length
       Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	04	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.5

Logically:

   Command details
       Command number: 5
       Command type: RECEIVE DATA
       Command qualifier: RFU
   Device identities
       Source device: UICC
       Destination device: Channel 1
   Channel Data Length
       Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	05	42	00	82	02	81	21	B7
	01	C8										

TERMINAL RESPONSE: RECEIVE DATA 1.1.1

Logically:

   Command details
       Command number: 1
       Command type: RECEIVE DATA
       Command qualifier: RFU
   Device identities
       Source device: ME
       Destination device: UICC
   Result
       General Result: Command performed successfully
   Channel Data :   00 01 02 .. C7 (200 Bytes of data)
   Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

TERMINAL RESPONSE: RECEIVE DATA 1.1.2

Logically:

   Command details
       Command number: 2
       Command type: RECEIVE DATA
       Command qualifier: RFU
   Device identities
       Source device: ME

    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data :   C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	02	42	00	82	02	82	81	83	01	00
	B6	81	C8	C8	C9	CA	..	FF	00	01	02	..
	8F	B7	01	FF								

TERMINAL RESPONSE: RECEIVE DATA 1.1.3

Logically:

Command details
    Command number: 3
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data :   90 91 .. FF 00 01 – 57 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	03	42	00	82	02	82	81	83	01	00
	B6	81	C8	90	91	92	..	FF	00	01	02	..
	57	B7	01	FF								

TERMINAL RESPONSE: RECEIVE DATA 1.1.4

Logically:

Command details
    Command number: 4
    Command type: RECEIVE DATA
    Command qualifier: RFUDevice identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data :   58 59 .. FF 00 01 .. 1F (200 Bytes of data)
Channel data length: C8

Coding:

BER-TLV:	81	03	04	42	00	82	02	82	81	83	01	00
	B6	81	C8	58	59	5A	..	FF	00	01	02	..
	1F	B7	01	C8								

TERMINAL RESPONSE: RECEIVE DATA 1.1.5

Logically:

    Command details
        Command number: 5
        Command type: RECEIVE DATA
        Command qualifier: RFUDevice identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel Data: 20 21 .. E7 (200 Bytes of data)
    Channel data length: 00

Coding:

BER-TLV:	81	03	05	42	00	82	02	82	81	83	01	00
	B6	81	C8	20	21	22	..	E7	B7	01	00	

27.22.4.29.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.4.29.2 RECEIVE DATA (support of Text Attribute)

27.22.4.29.2.1 RECEIVE DATA (support of Text Attribute – Left Alignment)

27.22.4.29.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.1.4 Method of test

27.22.4.29.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.1.4.2   Procedure

Expected sequence 2.1 (RECEIVE DATA, with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 400 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.1.1	200 Bytes with alpha identifier is displayed with left alignment
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.1.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.1.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.1.2	200 Bytes with alpha identifier shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/21, no alignment change will take place
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.1.1	

PROACTIVE COMMAND: RECEIVE DATA 2.1.1

Logically:

```
    Command details
            Command number:        1
            Command type:          RECEIVE DATA
            Command qualifier:     RFU
    Device identities
            Source device:         UICC
            Destination device:    Channel 1
    Alpha Identifier              "Receive Data 1"
    Channel Data Length
            Channel Data Length:   200
    Text Attribute
                    Formatting position: 0
                    Formatting length:   14
```

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.1.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.1.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.1.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

27.22.4.29.2.2   RECEIVE DATA (support of Text Attribute – Center Alignment)

27.22.4.29.2.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.29.2.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.2.3 Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.2.4 Method of test

27.22.4.29.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.2.4.2   Procedure

Expected sequence 2.2 (RECEIVE DATA, with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 400 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.2.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.2.1	200 Bytes with alpha identifier is displayed with center alignment
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.2.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.2.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.2.2	200 Bytes with alpha identifier shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/21, no alignment change will take place
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.2.1	

PROACTIVE COMMAND: RECEIVE DATA 2.2.1

Logically:

        Command details
                Command number: 1
                Command type: RECEIVE DATA
                Command qualifier: RFU
        Device identities
                Source device: UICC
                Destination device: Channel 1
        Alpha Identifier   "Receive Data 1"
        Channel Data Length
                Channel Data Length: 200
        Text Attribute
                        Formatting position: 0
                        Formatting length: 14

Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	01	B4

PROACTIVE COMMAND: RECEIVE DATA 2.2.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Receive Data 2"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.2.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data :   00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.2.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

27.22.4.29.2.3   RECEIVE DATA (support of Text Attribute – Right Alignment)

27.22.4.29.2.3.1   Definition and applicability

See clause 3.2.2.

27.22.4.29.2.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.3.3 Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.3.4 Method of test

27.22.4.29.2.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.3.4.2   Procedure

Expected sequence 2.3 (RECEIVE DATA, with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 400 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.3.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.3.1	200 Bytes with alpha identifier is displayed with right alignment
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.3.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.3.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.3.2	200 Bytes with alpha identifier shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/21, no alignment change will take place
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.3.1	

PROACTIVE COMMAND: RECEIVE DATA 2.3.1

Logically:

```
Command details
        Command number:        1
        Command type:          RECEIVE DATA
        Command qualifier:     RFU
Device identities
        Source device:         UICC
        Destination device:    Channel 1
Alpha Identifier               "Receive Data 1"
Channel Data Length
        Channel Data Length:   200
Text Attribute
                Formatting position: 0
                Formatting length:   14
```

Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	02	B4

PROACTIVE COMMAND: RECEIVE DATA 2.3.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.3.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.3.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

27.22.4.29.2.4   RECEIVE DATA (support of Text Attribute – Large Font Size)

27.22.4.29.2.4.1   Definition and applicability

See clause 3.2.2.

27.22.4.29.2.4.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.4.3   Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.4.4   Method of test

27.22.4.29.2.4.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.4.4.2 Procedure

Expected sequence 2.4 (RECEIVE DATA, with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 800 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.1	200 Bytes with alpha identifier is displayed with large font size
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.2	200 Bytes with alpha identifier is displayed with normal font size
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.1	200 Bytes with alpha identifier is displayed with large font size
25	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	
26	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.3	
27	ME → UICC	FETCH	
28	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.3	200 Bytes with alpha identifier is displayed with normal font size
29	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	

PROACTIVE COMMAND: RECEIVE DATA 2.4.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC

    Destination device: Channel 1
Alpha Identifier   "Receive Data 1"
Channel Data Length
    Channel Data Length: 200
Text Attribute
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Large Font, Bold On, Italic Off, Underline Off,
        Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	04	B4

PROACTIVE COMMAND: RECEIVE DATA 2.4.2

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier   "Receive Data 2"
    Channel Data Length
        Channel Data Length: 200
    Text Attribute
            Formatting position: 0
            Formatting length: 14
            Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
            Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.4.3

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier   "Receive Data 3"
    Channel Data Length
        Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.4.1

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel Data :   00 01 02 .. C7 (200 Bytes of data)
    Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

27.22.4.29.2.5 RECEIVE DATA (support of Text Attribute – Small Font Size)

27.22.4.29.2.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.5.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.5.3 Test purpose

To verify that the ME shall display the alpha identifier according to small font size the text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.5.4 Method of test

27.22.4.29.2.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.5.4.2   Procedure

Expected sequence 2.5 (RECEIVE DATA, with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 800 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.1	200 Bytes with alpha identifier is displayed with small font size
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.2	200 Bytes with alpha identifier is displayed with normal font size
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.1	200 Bytes with alpha identifier is displayed with small font size
25	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	
26	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.3	
27	ME → UICC	FETCH	
28	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.3	200 Bytes with alpha identifier is displayed with normal font size
29	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	

PROACTIVE COMMAND: RECEIVE DATA 2.5.1

Logically:

    Command details
            Command number: 1
            Command type: RECEIVE DATA
            Command qualifier: RFU
    Device identities
            Source device: UICC

Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
    Channel Data Length: 200
Text Attribute
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Small Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	08	B4

PROACTIVE COMMAND: RECEIVE DATA 2.5.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
    Channel Data Length: 200
Text Attribute
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.5.3

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.5.1

Logically:

Command details		
	Command number:	1
	Command type:	RECEIVE DATA
	Command qualifier:	RFU
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Channel Data :		00 01 02 .. C7 (200 Bytes of data)
Channel data length:		FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

27.22.4.29.2.6 RECEIVE DATA (support of Text Attribute – Bold On)

27.22.4.29.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.6.4 Method of test

27.22.4.29.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.6.4.2 Procedure

Expected sequence 2.6 (RECEIVE DATA, with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 800 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.1	200 Bytes with alpha identifier is displayed with bold on
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.2	200 Bytes with alpha identifier is displayed with bold off
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.1	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.1	200 Bytes with alpha identifier is displayed with bold on
25	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
26	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.3	
27	ME → UICC	FETCH	
28	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.3	200 Bytes with alpha identifier is displayed with bold off
29	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	

PROACTIVE COMMAND: RECEIVE DATA 2.6.1

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: UICC

	Destination device:	Channel 1
	Alpha Identifier	"Receive Data 1"

Channel Data Length

    Channel Data Length: 200

Text Attribute

        Formatting position: 0

        Formatting length: 14

        Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	10	B4

PROACTIVE COMMAND: RECEIVE DATA 2.6.2

Logically:

Command details

    Command number: 1

    Command type: RECEIVE DATA

    Command qualifier: RFU

Device identities

    Source device: UICC

    Destination device: Channel 1

Alpha Identifier   "Receive Data 2"

Channel Data Length

    Channel Data Length: 200

Text Attribute

        Formatting position: 0

        Formatting length: 14

        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.6.3

Logically:

Command details

    Command number: 1

    Command type: RECEIVE DATA

    Command qualifier: RFU

Device identities

    Source device: UICC

    Destination device: Channel 1

Alpha Identifier   "Receive Data 3"

Channel Data Length

    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.6.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

27.22.4.29.2.7 RECEIVE DATA (support of Text Attribute – Italic On)

27.22.4.29.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.7.4 Method of test

27.22.4.29.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.7.4.2 Procedure

Expected sequence 2.7 (RECEIVE DATA, with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 800 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.1	200 Bytes with alpha identifier is displayed with italic on
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.2	200 Bytes with alpha identifier is displayed with italic off
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.1	200 Bytes with alpha identifier is displayed with italic on
25	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	
26	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.3	
27	ME → UICC	FETCH	
28	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.3	200 Bytes with alpha identifier is displayed with italic off
29	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	

PROACTIVE COMMAND: RECEIVE DATA 2.7.1

Logically:

```
Command details
        Command number:      1
        Command type:        RECEIVE DATA
        Command qualifier:   RFU
Device identities
        Source device:       UICC
```

Destination device: Channel 1
Alpha Identifier   "Receive Data 1"
Channel Data Length
    Channel Data Length: 200
Text Attribute
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	20	B4

PROACTIVE COMMAND: RECEIVE DATA 2.7.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Receive Data 2"
Channel Data Length
    Channel Data Length: 200
Text Attribute
        Formatting position: 0
        Formatting length: 14
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.7.3

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Receive Data 3"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.7.1

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel Data :   00 01 02 .. C7 (200 Bytes of data)
    Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.7.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

27.22.4.29.2.8   RECEIVE DATA (support of Text Attribute – Underline On)

27.22.4.29.2.8.1   Definition and applicability

See clause 3.2.2.

27.22.4.29.2.8.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.29.2.8.3   Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.8.4   Method of test

27.22.4.29.2.8.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.8.4.2   Procedure

Expected sequence 2.8 (RECEIVE DATA, with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 800 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 kBytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.1	200 Bytes with alpha identifier is displayed with underline on
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.2	200 Bytes with alpha identifier is displayed with underline off
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.1	200 Bytes with alpha identifier is displayed with underline on
25	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	
26	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.3	
27	ME → UICC	FETCH	
28	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.3	200 Bytes with alpha identifier is displayed with underline off
29	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	

PROACTIVE COMMAND: RECEIVE DATA 2.8.1

Logically:

    Command details
          Command number: 1
          Command type: RECEIVE DATA
          Command qualifier: RFU
    Device identities
          Source device: UICC

Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
    Channel Data Length: 200
Text Attribute
    Formatting position: 0
    Formatting length: 14
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	40	B4

PROACTIVE COMMAND: RECEIVE DATA 2.8.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
    Channel Data Length: 200
Text Attribute
    Formatting position: 0
    Formatting length: 14
    Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.8.3

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
    Channel Data Length: 200
Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.8.1

Logically:

> Command details
>> Command number: 1
>> Command type: RECEIVE DATA
>> Command qualifier: RFU
> Device identities
>> Source device: ME
>> Destination device: UICC
> Result
>> General Result: Command performed successfully
> Channel Data : 00 01 02 .. C7 (200 Bytes of data)
> Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

27.22.4.29.2.9 RECEIVE DATA (support of Text Attribute – Strikethrough On)

27.22.4.29.2.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

* 3GPP TS 31.111 [15].

27.22.4.29.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.9.4 Method of test

27.22.4.29.2.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.9.4.2 Procedure

Expected sequence 2.9 (RECEIVE DATA, with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 800 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.1	200 Bytes with alpha identifier is displayed with strikethrough on
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.2	200 Bytes with alpha identifier is displayed with strikethrough off
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.1	200 Bytes with alpha identifier is displayed with strikethrough on
25	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	
26	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.3	
27	ME → UICC	FETCH	
28	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.3	200 Bytes with alpha identifier is displayed with strikethrough off
29	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	

PROACTIVE COMMAND: RECEIVE DATA 2.9.1

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: UICC

       Destination device: Channel 1
Alpha Identifier   "Receive Data 1"
Channel Data Length
       Channel Data Length: 200
Text Attribute
               Formatting position: 0
               Formatting length: 14
               Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
               Strikethrough On
       Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	80	B4

PROACTIVE COMMAND: RECEIVE DATA 2.9.2

Logically:

   Command details
       Command number: 1
       Command type: RECEIVE DATA
       Command qualifier: RFU
   Device identities
       Source device: UICC
       Destination device: Channel 1
   Alpha Identifier   "Receive Data 2"
   Channel Data Length
       Channel Data Length: 200
   Text Attribute
               Formatting position: 0
               Formatting length: 14
               Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
               Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.9.3

Logically:

   Command details
       Command number: 1
       Command type: RECEIVE DATA
       Command qualifier: RFU
   Device identities
       Source device: UICC
       Destination device: Channel 1
   Alpha Identifier   "Receive Data 3"
   Channel Data Length
       Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.9.1

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel Data :   00 01 02 .. C7 (200 Bytes of data)
    Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

27.22.4.29.2.10 RECEIVE DATA (support of Text Attribute – Foreground and Background Colour)

27.22.4.29.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

* 3GPP TS 31.111 [15].

27.22.4.29.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.10.4 Method of test

27.22.4.29.2.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.29.2.10.4.2   Procedure

Expected sequence 2.10 (RECEIVE DATA, with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Transfer of 400 Bytes data to the ME through channel 1	
13	ME → UICC	ENVELOPE (Data Available)	(1000 Bytes of data in the ME buffer)
14	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.10.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.10.1	200 Bytes with alpha identifier is displayed with foreground and background colour
17	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.10.1	
18	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.10.2	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.10.2	200 Bytes with alpha identifier is displayed with ME"s default foreground and background colour
21	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.10.1	

PROACTIVE COMMAND: RECEIVE DATA 2.10.1

Logically:

```
    Command details
          Command number:       1
          Command type:         RECEIVE DATA
          Command qualifier:    RFU
    Device identities
          Source device:        UICC
          Destination device:   Channel 1
    Alpha Identifier            "Receive Data 1"
    Channel Data Length
          Channel Data Length:  200
    Text Attribute
                      Formatting position: 0
                      Formatting length:   14
                      Formatting mode:     Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
                      Strikethrough Off
    Colour:           Dark Green Foreground, Bright Yellow Background
```

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.10.2

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier   "Receive Data 2"
    Channel Data Length
        Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.10.1

Logically:

    Command details
        Command number: 1
        Command type: RECEIVE DATA
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel Data :   00 01 02 .. C7 (200 Bytes of data)
    Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	00	01	02	..	C7	B7	01	FF		

27.22.4.29.2.10.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

27.22.4.30   SEND DATA

27.22.4.30.1   SEND DATA (normal)

27.22.4.30.1.1   Definition and applicability

See clause 3.2.2.

27.22.4.30.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.1.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or

- TERMINAL RESPONSE (ME currently unable to process command); or

- TERMINAL RESPONSE (Bearer Independent Protocol Error);

- TERMINAL RESPONSE (Proactive USIM session terminated by the user);

to the UICC after the ME receives the SEND DATA proactive command. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

27.22.4.30.1.4 Method of test

27.22.4.30.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.1.4.2   Procedure

Expected sequence 1.1 (SEND DATA, immediate mode)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
11	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	
12	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

```
Command details
    Command number:         1
    Command type:           OPEN CHANNEL
    Command qualifier:      immediate link establishment
Device identities
    Source device:          UICC
    Destination device:     ME
Address
    TON:                    International number
    NPI:                    ISDN / telephone numbering plan
    Dialling number string  "112233445566778"
Bearer description
    Bearer type:            CSD
Bearer parameter
    Data rate:              9600bps V.32
    Bearer service:         data circuit asynchronous UDI
    Connection element:     non-transparent
Buffer size                 1000
```

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         ME
        Destination device:    UICC
Result
        General Result:        Command performed successfully
Channel status                 Channel identifier 1 and link established
Bearer description
        Bearer type:           CSD
Bearer parameter
        Data rate:             9600bps V.32
        Bearer service:        data circuit asynchronous
        Connection element:    non-transparent
Buffer size                    1000
```

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

```
Command details
        Command number:        1
        Command type:          OPEN CHANNEL
        Command qualifier:     immediate link establishment
Device identities
        Source device:         UICC
        Destination device:    ME
Bearer
        Bearer type:           GPRS
        Bearer parameter:
        Precedence Class:      02
        Delay Class:           04
        Reliability Class:     05
        Peak throughput class: 05
        Mean throughput class: 16
        Packet data protocol:  02 (IP)
Buffer
        Buffer size:           1000
Text String:                   UserLog (User login)
Text String:                   UserPwd (User password)
UICC/ME interface transport level
        Transport format:      UDP
        Port number:           44444
Data destination address       01.01.01.01
```

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

```
Command details
    Command number:        1
    Command type:          OPEN CHANNEL
    Command qualifier:     immediate link establishment
Device identities
    Source device:         ME
    Destination device:    UICC
Result
    General Result:        Command performed successfully
Channel status             Channel identifier 1 and link established or PDP context activated
Bearer description
    Bearer type:           GPRS
    Bearer parameter:
    Precedence Class:      02
    Delay Class:           04
    Reliability Class:     05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:  02 (IP)
Buffer
    Buffer size:           1000
```

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

PROACTIVE COMMAND: SEND DATA 1.1.1

Logically:

```
Command details
    Command number:        1
    Command type:          SEND DATA
    Command qualifier:     Send Immediately
Device identities
    Source device:         UICC
    Destination device:    Channel 1
Channel Data
    Channel Data:          00 01 .. 07 (8 Bytes of data)
```

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	21	B6
	08	00	01	02	03	04	05	06	07			

TERMINAL RESPONSE: SEND DATA 1.1.1

Logically:

Command details

```
            Command number:        1
            Command type:          SEND DATA
            Command qualifier:     Send Immediately
        Device identities
            Source device:         ME
            Destination device:    UICC
        Result
            General Result:        Command performed successfully
            Channel data length:   8 Bytes
```

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

Expected sequence 1.2 (SEND DATA, Store mode)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.1	Send 500 Bytes of data (200 + 200 + 100)
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.2	[200 Bytes]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.2	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.3	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA (Immediate mode) 1.2.3	[100 Bytes]
19	ME → USS	Transfer of 500 Bytes of data to the USS through channel 1	
18	ME → UICC	TERMINAL RESPONSE: SEND DATA (Immediate mode) 1.2.3	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 1.2.1

Logically:

```
    Command details
        Command number:        1
```

Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data : 00 01 .. C7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	00	01	..	C7					

TERMINAL RESPONSE: SEND DATA 1.2.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.2.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data : C8 C9 .. FF 00 01 .. 8F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	C8	C9	..	FF	00	01	..	8F	

TERMINAL RESPONSE: SEND DATA 1.2.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME

Destination device:		UICC										

Result

General Result:		Command performed successfully		
Channel data length:		More than 255 bytes of space available in the Tx buffer		

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.2.3

Logically:

Command details

Command number:	1	
Command type:	SEND DATA	
Command qualifier:	Immediate mode	

Device identities

Source device:	UICC	
Destination device:	Channel 1	

Channel Data

Channel Data :	90 91 .. F3 (100 Bytes of data)	

Coding:

BER-TLV:	D0	6F	81	03	01	43	01	82	02	81	21	B6
	64	90	91	..	F3							

TERMINAL RESPONSE: SEND DATA 1.2.3

Logically:

Command details

Command number:	1	
Command type:	SEND DATA	
Command qualifier:	Immediate mode	

Device identities

Source device:	ME	
Destination device:	UICC	

Result

General Result:	Command performed successfully	
Channel data length:	More than 255 bytes of space available in the Tx buffer	

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

Expected sequence 1.3 (SEND DATA, Store mode, Tx buffer fully used)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
27	ME → USS	Transfer of 1000 Bytes of data to the USS through channel 1	
26	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Store mode

    Device identities
        Source device: UICC
        Destination device: Channel 1
    Channel Data
        Channel Data :   00 01 02 .. C7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	00	01	02	...	C7				

TERMINAL RESPONSE: SEND DATA 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Store mode
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.2

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Store mode
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Channel Data
        Channel Data :   C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	C8	C9	CA	...	FF	00	02	..	8F

TERMINAL RESPONSE: SEND DATA 1.3.2

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Store mode
    Device identities
        Source device: ME
        Destination device: UICC
    Result

General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.3

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Store mode
Device identities
    Source device: UICC
    Destination device: Channel 1
Channel Data
    Channel Data : 90 91 .. FF 00 01 .. 57 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	90	91	..	FF	00	01	..	57	

TERMINAL RESPONSE: SEND DATA 1.3.3

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Store mode
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.4

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Store mode
Device identities
    Source device: UICC
    Destination device: Channel 1
Channel Data
    Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	58	59	..	FF	00	01	..	1F	

TERMINAL RESPONSE: SEND DATA 1.3.4

Logically:

```
Command details
    Command number:         1
    Command type:           SEND DATA
    Command qualifier:      Store mode
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command performed successfully
    Channel data length:    200 bytes of space available in the Tx buffer
```

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	C8									

PROACTIVE COMMAND: SEND DATA 1.3.5

Logically:

```
Command details
    Command number:         1
    Command type:           SEND DATA
    Command qualifier:      Send Immediately
Device identities
    Source device:          UICC
    Destination device:     Channel 1
Channel Data
    Channel Data:           20 21 .. E7 (200 Bytes of data)
```

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	01	82	02	81	21
	B6	81	C8	20	21	..	E7					

TERMINAL RESPONSE: SEND DATA 1.3.5

Logically:

```
Command details
    Command number:         1
    Command type:           SEND DATA
    Command qualifier:      Send Immediately
Device identities
    Source device:          ME
    Destination device:     UICC
Result
    General Result:         Command performed successfully
    Channel data length:    No space available in the Tx buffer
```

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	00									

Expected sequence 1.4 (SEND DATA, 2 consecutive SEND DATA Store mode)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
27	ME → USS	Transfer of 1000 Bytes of data to the USS through channel 1	
28	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
32	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
34	ME → UICC	FETCH	

35	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
36	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
37	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
86	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
40	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
41	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
42	ME → UICC	FETCH	
43	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
44	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
48	ME → USS	Transfer of 1000 Bytes of data to the USS through channel 1	
49	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]

Expected sequence 1.5 (SEND DATA, immediate mode with a bad channel identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
65	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.5.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.5.1	
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Invalid channel number]

PROACTIVE COMMAND: SEND DATA 1.5.1

Logically:

Command details
    Command number: 1

Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 2
Channel Data
Channel Data : 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	22	B6
	08	00	01	02	03	04	05	06	07			

TERMINAL RESPONSE: SEND DATA 1.5.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Bearer Independent Protocol error (3A)
Additional Result: Channel identifier not valid (03)

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	02	3A
	03											

Expected sequence 1.6 (SEND DATA, immediate mode, Proactive UICC session terminated by the user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING; SEND DATA 1.6.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.6.1	
11	ME → USER	ME displays 'Send data'	
12	USER → ME	Abort proactive session	
13	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Proactive UICC session terminated by the user]

PROACTIVE COMMAND: SEND DATA 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier :   Send data
    Channel Data
        Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	1E	81	03	01	43	01	82	02	81	21	85
	09	53	65	6E	64	20	64	61	74	61	B6	08
	00	01	02	03	04	05	06	07				

TERMINAL RESPONSE: SEND DATA 1.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities

	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	10

27.22.4.30.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.6.

27.22.4.30.2 SEND DATA (support of Text Attribute)

27.22.4.30.2.1 SEND DATA (support of Text Attribute – Left Alignment)

27.22.4.30.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.1.4 Method of test

27.22.4.30.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd
UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.30.2.1.4.2 Procedure

Expected sequence 2.1 (SEND DATA with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.1.1	[alpha identifier shall be displayed with left alignment]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.1.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.1.2	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/22, no alignment change will take place]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Text Attribute

        Formatting position: 0

        Formatting length: 11

        Formatting mode: Left Alignment, Normal Font, Bold On, Italic On, Underline Off, Strikethrough Off

    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.1.2

Logically:

Command details

        Command number: 1

        Command type: SEND DATA

        Command qualifier: Send Immediately

Device identities

        Source device: UICC

        Destination device: Channel 1

Alpha Identifier   "Send Data 2"

Channel Data

        Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.1.1

Logically:

Command details

        Command number: 1

        Command type: SEND DATA

        Command qualifier: Send Immediately

Device identities

        Source device: ME

        Destination device: UICC

Result

        General Result: Command performed successfully

        Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.1.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

27.22.4.30.2.2   SEND DATA (support of Text Attribute – Center Alignment)

27.22.4.30.2.2.1   Definition and applicability

See clause 3.2.2.

27.22.4.30.2.2.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.2.3   Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.2.4   Method of test

27.22.4.30.2.2.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.2.4.2   Procedure

Expected sequence 2.2 (SEND DATA with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.2.1	[alpha identifier shall be displayed with center alignment]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.2.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.2.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.2.2	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/22, no alignment change will take place]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.2.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.2.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier   "Send Data 1"
    Channel Data
        Channel Data: 00 01 .. 07 (8 Bytes of data)
    Text Attribute
            Formatting position: 0
            Formatting length: 11
            Formatting mode: Center Alignment, Normal Font, Bold On, Italic On, Underline Off, Strikethrough Off
      Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	01	B4								

PROACTIVE COMMAND: SEND DATA 2.2.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.2.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

27.22.4.30.2.3 SEND DATA (support of Text Attribute – Right Alignment)

27.22.4.30.2.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.3.3   Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.3.4   Method of test

27.22.4.30.2.3.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.3.4.2   Procedure

Expected sequence 2.3 (SEND DATA with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.3.1	[alpha identifier shall be displayed with right alignment]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.3.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.3.2	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/22, no alignment change will take place]
145	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.3.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.3.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier   "Send Data 1"
    Channel Data
        Channel Data: 00 01 .. 07 (8 Bytes of data)
    Text Attribute
                Formatting position: 0
                Formatting length: 11
                Formatting mode: Right Alignment, Normal Font, Bold On, Italic On, Underline Off,
                Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	02	B4								

PROACTIVE COMMAND: SEND DATA 2.3.2

Logically:

```
    Command details
        Command number:      1
        Command type:        SEND DATA
        Command qualifier:   Send Immediately
    Device identities
        Source device:       UICC
        Destination device:  Channel 1
    Alpha Identifier         "Send Data 2"
    Channel Data
        Channel Data:        00 01 .. 07 (8 Bytes of data)
```

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.3.1

Logically:

```
    Command details
        Command number:      1
        Command type:        SEND DATA
        Command qualifier:   Send Immediately
    Device identities
        Source device:       ME
        Destination device:  UICC
    Result
        General Result:      Command performed successfully
        Channel data length: 8 Bytes
```

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.3.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

27.22.4.30.2.4   SEND DATA (support of Text Attribute – Large Font Size)

27.22.4.30.2.4.1   Definition and applicability

See clause 3.2.2.

27.22.4.30.2.4.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.4.3   Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.4.4   Method of test

27.22.4.30.2.4.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.4.4.2 Procedure

Expected sequence 2.4 (SEND DATA with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.1	[alpha identifier shall be displayed with large font size]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.2	[alpha identifier shall be displayed with normal font size]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.1	[alpha identifier shall be displayed with large font size]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.3	[alpha identifier shall be displayed with normal font size]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.4.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier   "Send Data 1"

Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Large Font, Bold On, Italic On, Underline Off,
        Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	04	B4								

PROACTIVE COMMAND: SEND DATA 2.4.2

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
        Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.4.3

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 3"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.4.1

Logically:

    Command details
            Command number: 1
            Command type: SEND DATA
            Command qualifier: Send Immediately
    Device identities
            Source device: ME
            Destination device: UICC
    Result
            General Result: Command performed successfully
            Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.4.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

27.22.4.30.2.5   SEND DATA (support of Text Attribute – Small Font Size)

27.22.4.30.2.5.1   Definition and applicability

See clause 3.2.2.

27.22.4.30.2.5.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.5.3   Test purpose

To verify that the ME shall display the alpha identifier according to the small font size text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.5.4   Method of test

27.22.4.30.2.5.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.5.4.2   Procedure

Expected sequence 2.5 (SEND DATA with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.1	[alpha identifier shall be displayed with small font size]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.2	[alpha identifier shall be displayed with normal font size]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.1	[alpha identifier shall be displayed with small font size]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.3	[alpha identifier shall be displayed with normal font size]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.5.1

Logically:

```
Command details
        Command number:         1
        Command type:           SEND DATA
        Command qualifier:      Send Immediately
Device identities
        Source device:          UICC
        Destination device:     Channel 1
Alpha Identifier                "Send Data 1"
```

Channel Data
　　Channel Data:　　　　　　　00 01 .. 07 (8 Bytes of data)
Text Attribute
　　　　　　　Formatting position: 0
　　　　　　　Formatting length:　11
　　　　　　　Formatting mode:　　Left Alignment, Small Font, Bold On, Italic On, Underline Off,
　　　　　　　Strikethrough Off
　　Colour:　　　　Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	08	B4								

PROACTIVE COMMAND: SEND DATA 2.5.2

Logically:

Command details
　　　　Command number:　　1
　　　　Command type:　　　SEND DATA
　　　　Command qualifier:　Send Immediately
Device identities
　　　　Source device:　　　UICC
　　　　Destination device:　Channel 1
Alpha Identifier　　　　"Send Data 2"
Channel Data
　　Channel Data:　　　　　　　00 01 .. 07 (8 Bytes of data)
Text Attribute
　　　　　　　Formatting position: 0
　　　　　　　Formatting length:　11
　　　　　　　Formatting mode:　　Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
　　　　　　　Strikethrough Off
　　Colour:　　　　Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.5.3

Logically:

Command details
　　　　Command number:　　1
　　　　Command type:　　　SEND DATA
　　　　Command qualifier:　Send Immediately
Device identities
　　　　Source device:　　　UICC
　　　　Destination device:　Channel 1
Alpha Identifier　　　　"Send Data 3"
Channel Data
　　Channel Data:　　00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.5.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

27.22.4.30.2.6 SEND DATA (support of Text Attribute – Bold On)

27.22.4.30.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.6.4 Method of test

27.22.4.30.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.6.4.2 Procedure

Expected sequence 2.6 (SEND DATA with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.1	[alpha identifier shall be displayed with Bold on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.2	[alpha identifier shall be displayed with bold off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.1	[alpha identifier shall be displayed with bold on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.3	[alpha identifier shall be displayed with bold off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.6.1

Logically:

```
Command details
      Command number:        1
      Command type:          SEND DATA
      Command qualifier:     Send Immediately
Device identities
      Source device:         UICC
      Destination device:    Channel 1
Alpha Identifier             "Send Data 1"
```

Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold On , Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	10	B4								

PROACTIVE COMMAND: SEND DATA 2.6.2

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.6.3

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 3"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.6.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

27.22.4.30.2.7 SEND DATA (support of Text Attribute – Italic On)

27.22.4.30.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.7.4 Method of test

27.22.4.30.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)

GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd

UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.7.4.2   Procedure

Expected sequence 2.7 (SEND DATA with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.1	[alpha identifier shall be displayed with Italic on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.2	[alpha identifier shall be displayed with italic off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.1	[alpha identifier shall be displayed with italic on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.3	[alpha identifier shall be displayed with italic off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 1"

Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
           Formatting position: 0
           Formatting length: 11
           Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off,
           Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	20	B4								

PROACTIVE COMMAND: SEND DATA 2.7.2

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
           Formatting position: 0
           Formatting length: 11
           Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
           Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.7.3

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 3"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

27.22.4.30.2.8 SEND DATA (support of Text Attribute – Underline On)

27.22.4.30.2.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.8.4 Method of test

27.22.4.30.2.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.8.4.2 Procedure

Expected sequence 2.8 (SEND DATA with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.1	[alpha identifier shall be displayed with underline on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.2	[alpha identifier shall be displayed with underline off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.1	[alpha identifier shall be displayed with underline on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.3	[alpha identifier shall be displayed with underline off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.8.1

Logically:

 Command details
  Command number: 1
  Command type: SEND DATA
  Command qualifier: Send Immediately
 Device identities
  Source device: UICC
  Destination device: Channel 1
 Alpha Identifier "Send Data 1"

Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
           Formatting position: 0
           Formatting length: 11
           Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	40	B4								

PROACTIVE COMMAND: SEND DATA 2.8.2

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
           Formatting position: 0
           Formatting length: 11
           Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.8.3

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 3"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

27.22.4.30.2.9 SEND DATA (support of Text Attribute – Strikethrough On)

27.22.4.30.2.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

• 3GPP TS 31.111 [15].

27.22.4.30.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.9.4 Method of test

27.22.4.30.2.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)

GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd

UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.9.4.2 Procedure

Expected sequence 2.9 (SEND DATA with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.1	[alpha identifier shall be displayed with strikethrough on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.2	[alpha identifier shall be displayed with strikethrough off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.1	[alpha identifier shall be displayed with strikethrough on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.3	[alpha identifier shall be displayed with strikethrough off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.9.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: UICC
        Destination device: Channel 1
    Alpha Identifier   "Send Data 1"

Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
               Formatting position: 0
               Formatting length: 11
               Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
               Strikethrough On
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	80	B4								

PROACTIVE COMMAND: SEND DATA 2.9.2

Logically:

Command details
               Command number: 1
               Command type: SEND DATA
               Command qualifier: Send Immediately
Device identities
               Source device: UICC
               Destination device: Channel 1
Alpha Identifier   "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
               Formatting position: 0
               Formatting length: 11
               Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
               Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.9.3

Logically:

Command details
               Command number: 1
               Command type: SEND DATA
               Command qualifier: Send Immediately
Device identities
               Source device: UICC
               Destination device: Channel 1
Alpha Identifier   "Send Data 3"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.9.1

Logically:

    Command details
        Command number: 1
        Command type: SEND DATA
        Command qualifier: Send Immediately
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
        Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08									

27.22.4.30.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

27.22.4.30.2.10 SEND DATA (support of Text Attribute – Foreground and Background Colour)

27.22.4.30.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.30.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.10.4 Method of test

27.22.4.30.2.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol:02 (IP)

GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd

UICC/ME interface transport level

    Transport format:UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.30.2.10.4.2   Procedure

Expected sequence 2.10 (SEND DATA with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.10.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.10.1	[alpha identifier shall be displayed with foreground and background colour according to the text attribute configuration]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.10.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.10.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.10.2	[alpha identifier shall be displayed with ME"s default foreground and background colour]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.10.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.10.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 1"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
    Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.10.2

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier   "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.10.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00

	B7	01	08										

27.22.4.30.2.10.5   Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

27.22.4.31   GET CHANNEL STATUS

27.22.4.31.1   Definition and applicability

See clause 3.2.2.

27.22.4.31.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

27.22.4.31.3   Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC after the ME receives the GET STATUS proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the ME and the network capabilities against asked parameters by the UICC.

27.22.4.31.4   Method of test

27.22.4.31.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, for test cases using packet services:

Bearer Parameters

    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.4.31.4.2   Procedure

Expected sequence 1.1 (GET STATUS, without any BIP channel opened)

For that test, no channel has been opened.

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET STATUS 1.1.1	
4	ME → UICC	TERMINAL GET STATUS 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: GET STATUS 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET STATUS
        Command qualifier: RFU
    Device identities
        Source device: UICC
        Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET STATUS 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: GET STATUS
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status
        Channel status: No Channel, link not established

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	00	00								

Expected sequence 1.2 (GET STATUS, with a BIP channel currently opened)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
4	ME → USS	SETUP CALL	
5	USS → ME	CONNECTED	
6	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.2.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET STATUS 1.2.1	
10	ME → UICC	TERMINAL GET STATUS 1.2.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Address
    TON: International number
    NPI: ISDN / telephone numbering plan
    Dialling number string   "112233445566778"
Bearer description
    Bearer type: CSD
Bearer parameter
    Data rate: 9600bps V.32
    Bearer service: data circuit asynchronous UDI
    Connection element: non-transparent
Buffer size   1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
    Command number: 1

Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully
Channel status	Channel identifier 1 and link established
Bearer description	
Bearer type:	CSD
Bearer parameter	
Data rate:	9600bps V.32
Bearer service:	data circuit asynchronous
Connection element:	non-transparent
Buffer size	1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

Command details	
Command number:	1
Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment
Device identities	
Source device:	UICC
Destination device:	ME
Bearer	
Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)
Buffer	
Buffer size:	1000
Text String:	UserLog (User login)
Text String:	UserPwd (User password)
UICC/ME interface transport level	
Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel status   Channel identifier 1 and link established or PDP context activated
Bearer description
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

PROACTIVE COMMAND: GET STATUS 1.2.1

Logically:

Command details
    Command number: 1
    Command type: GET STATUS
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET STATUS 1.2.1

Logically:

Command details
    Command number: 1
    Command type: GET STATUS
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel status
    Channel status: Channel 1 open, link established

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	81	00								

Expected sequence 1.3 (GET STATUS, after a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USS	SETUP CALL	
9	USS → ME	CONNECTED	
10	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
11	USS → ME	DROP LINK	
12	ME → UICC	ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1	[Link dropped]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET STATUS 1.3.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET STATUS 1.3.1	
16	ME → UICC	TERMINAL RESPONSE: GET STATUS 1.3.1	[Command performed successfully]

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Channel Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	0A								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST

            Command qualifier: '00'
      Device identities
            Source device: ME
            Destination device: UICC
      Result
            General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1

Logically:

      Event list
            Event list: Channel Status
      Device identities
            Source device: ME
            Destination device: UICC
      Channel status
            Channel status: Channel 1, link dropped

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	B8	02	01
	05											

PROACTIVE COMMAND: GET STATUS 1.3.1

Logically:

      Command details
            Command number: 1
            Command type: GET STATUS
            Command qualifier: RFU
      Device identities
            Source device: UICC
            Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET STATUS 1.3.1

Logically:

      Command details
            Command number: 1
            Command type: GET STATUS
            Command qualifier: RFU
      Device identities
            Source device: ME
            Destination device: UICC
      Result
            General Result: Command performed successfully
      Channel status
            Channel status: Channel 1, link dropped

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	01	05								

27.22.4.31.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.5   Data Download to UICC

27.22.5.1   SMS-PP Data Download

27.22.5.1.1   Definition and applicability

See clause 3.2.2.

27.22.5.1.2   Conformance requirement

The ME shall support the Proactive UICC: SMS-PP Data Download facility as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 5, clause 7.1, clause 8.1, clause82.7 and clause 8.13.

27.22.5.1.3   Test purpose

To verify that the ME transparently passes the "data download via SMS Point-to-point" messages to the UICC.

To verify that the ME returns the RP-ACK message back to the USS, if the UICC responds with '90 00' or '91 XX'.

To verify that the ME returns the response data from the UICC back to the USS in the TP-User-Data element of the RP-ACK message, if the UICC returns response data'.

27.22.5.1.4   Method of Test

27.22.5.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.5.1.4.2 Procedure

Expected Sequence 1.1 (void)

Expected Sequence 1.2 (SMS-PP Data Download, General Data Coding, Acknowledgement)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.2.1	
2	ME → USER	The ME shall not display the message or alert the user of a short message waiting.	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.2.2	
4	UICC → ME	SMS-PP Data Download UICC Acknowledgement 1.2.4	[SW1 / SW2 of '90 00'
5	ME → USS	SMS-PP Data Download UICC Acknowledgement 1.2.4 in the TP-User-Data element of the RP-ACK message. The values of protocol identifier and data coding scheme in RP-ACK shall be as in the original message.	

Expected Sequence 1.3 (SMS-PP Data Download, General Data CodingFETCH, MORE TIME)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.3.1	
2	ME → USER	The ME shall not display the message or alert the user of a short message waiting	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.3.2	[SW1 / SW2 of '91 0B']
4	UICC → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.3.4	
5	ME → USS	RP-ACK	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: MORE TIME 1.3.4	
8	ME → UICC	TERMINAL RESPONSE: MORE TIME 1.3.5	
9	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: MORE TIME 1.3.4

Logically:

Command details
    Command number: 1
    Command type: MORE TIME
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 1.3.5

Logically:

```
Command details
      Command number:      1
      Command type:        MORE TIME
      Command qualifier:   "00"
Device identities
      Source device:       ME
      Destination device:  UICC
Result
      General Result:      Command performed successfully
```

Coding:

BER-TLV:	81	03	01	02	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (SMS-PP Data Download, General Data Coding)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.4.1	
2	ME	The ME shall not display the message or alert the user of a short message waiting	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.4.2	
4	UICC → ME	SW1 / SW2 of '90 00'	
5	ME → USS	RP-ACK	

SMS-PP (Data Download) Message 1.2.1 / 1.3.1 / 1.4.1

Logically:

```
SMS TPDU
      TP-MTI              SMS-DELIVER
      TP-MMS              No more messages waiting for the MS in this SC
      TP-RP               TP-Reply-Path is not set in this SMS-DELIVER
      TP-UDHI             TP-UD field contains only the short message
      TP-SRI              A status report will not be returned to the SME
      TP-OA
      TON                 International number
      NPI                 "ISDN / telephone numbering plan"
      Address value       "1234"
      TP-PID              (U)SIM Data download
      TP-DCS
      Coding Group        General Data Coding
      Compression         Text is uncompressed
      Message Class       Class 2 (U)SIM Specific Message
      Alphabet            8 bit data
      TP-SCTS:            01/01/98 00:00:00 +0
      TP-UDL              13
      TP-UD               "Short Message"
```

Coding:

BER-TLV:	04	04	91	21	43	7F	16	89	10	10	00	00
	00	00	0D	53	68	6F	72	74	20	4D	65	73
	73	61	67	65								

ENVELOPE: SMS-PP DOWNLOAD 1.2.2 / 1.3.2 / 1.4.2,

Logically:

SMS-PP Download
    Device identities
    Source device: Network
    Destination device: UICC
    Address
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Dialling number string   "112233445566778"
    SMS TPDU
    TP-MTI   SMS-DELIVER
    TP-MMS   No more messages waiting for the MS in this SC
    TP-RP TP-Reply-Path is not set in this SMS-DELIVER
    TP-UDHI   TP-UD field contains only the short message
    TP-SRI   A status report will not be returned to the SME
    TP-OA
    TON   International number
    NPI   "ISDN / telephone numbering plan"
    Address value   "1234"
    TP-PID   (U)SIM Data download
    TP-DCS
    Coding Group   General Data Coding
    Compression   Text is uncompressed
    Message Class   Class 2 (U)SIM Specific Message
    Alphabet   8 bit data
    TP-SCTS: 01/01/98 00:00:00 +0
    TP-UDL   13
    TP-UD   "Short Message"

Coding:

BER-TLV:	D1	2D	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1C	04	04	91	21	43
	7F	16	89	10	10	00	00	00	00	0D	53	68
	6F	72	74	20	4D	65	73	73	61	67	65	

Expected Sequence 1.5 (void)

Expected Sequence 1.6 (SMS-PP Data Download, with Data Coding / Message Class)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.6.1	
2	ME	The ME shall not display the message or alert the user of a short message waiting	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.6.2	
4	UICC → ME	SW1 / SW2 of '90 00'	
5	ME → USS	RP-ACK	

SMS-PP (Data Download) Message 1.6.1

Logically:

    SMS TPDU
        TP-MTI   SMS-DELIVER
        TP-MMS   No more messages waiting for the MS in this SC
        TP-RP   TP-Reply-Path is not set in this SMS-DELIVER
        TP-UDHI   TP-UD field contains only the short message
        TP-SRI   A status report will not be returned to the SME
        TP-OA
        TON   International number

NPI			"ISDN / telephone numbering plan"		
Address value			"1234"		
TP-PID			(U)SIM Data download		
TP-DCS					
Coding Group			Data Coding / Message Class		
Message Coding			8 bit data		
Message Class			Class 2 (U)SIM Specific Message		
TP-SCTS:			01/01/98 00:00:00 +0		
TP-UDL			13		
TP-UD			"Short Message"		

Coding:

BER-TLV:	04	04	91	21	43	7F	F6	89	10	10	00	00
	00	00	0D	53	68	6F	72	74	20	4D	65	73
	73	61	67	65								

ENVELOPE: SMS-PP DOWNLOAD 1.6.2

Logically:

SMS-PP Download
      Device identities
      Source device: Network
      Destination device: UICC
      Address
      TON   International number
      NPI   "ISDN / telephone numbering plan"
      Dialling number string   "112233445566778"
      SMS TPDU
      TP-MTI   SMS-DELIVER
      TP-MMS   No more messages waiting for the MS in this SC
      TP-RP TP-Reply-Path is not set in this SMS-DELIVER
      TP-UDHI   TP-UD field contains only the short message
      TP-SRI   A status report will not be returned to the SME
      TP-OA
      TON   International number
      NPI   "ISDN / telephone numbering plan"
      Address value   "1234"
      TP-PID   (U)SIM Data download
      TP-DCS
      Coding Group   Data Coding / Message Class
      Message Coding   8 bit data
      Message Class   Class 2 (U)SIM Specific Message
      TP-SCTS: 01/01/98 00:00:00 +0
      TP-UDL   13
      TP-UD   "Short Message"

Coding:

BER-TLV:	D1	2D	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1C	04	04	91	21	43
	7F	F6	89	10	10	00	00	00	00	0D	53	68
	6F	72	74	20	4D	65	73	73	61	67	65	

SMS-PP Data Download UICC Acknowledgement 1.2.4

Coding:

BER-TLV:	50	68	69	6C	20	48	6F	6F	6B	65	72

27.22.5.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.2 to 1.6.

27.22.5.2 SMS-CB Data Download

27.22.5.2.1 Definition and applicability

See clause 3.2.2.

27.22.5.2.2 Conformance requirement

The ME shall support the Proactive UICC: SMS-CB Data Download facility as defined in:

- 3GPP TS 31.111 [15] clause 5, clause 7.1.2, clause 8.5 and clause 8.7.

27.22.5.2.3 Test purpose

To verify that the ME transparently passes the "data download via SMS Cell Broadcast" messages to the UICC, which contain a message identifier found in EF$_{CBMID}$.

27.22.5.2.4 Method of Test

27.22.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.5.2.4.2 Procedure

Expected Sequence 1.1 (SMS-CB (Data Download), ENVELOPE(SMS-CB DOWNLOAD), ME does not display message)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-CB (DATA DOWNLOAD) 1.1	Message identifier '10 01'
2	ME → UICC	ENVELOPE (SMS-CB DOWNLOAD) 1.1	
3	UICC → ME	SW1, SW2 '90 00'	

SMS-CB (Data Download) Message 1.1

Logically:

```
Message Content
        Serial Number
        Geographical scope:    Cell wide, normal display mode
        Message code:          1
        Update number:         1
        Message Identifier:    "1001"
        Data coding Scheme
        Message Coding:        7 bit data
        Message class:         No message class
        Page Parameter
        Total number of pages: 1
        Page number:           1
        Content of message:    "Cell Broadcast "..
```

Coding:

BER-TLV:	C0	11	10	01	F0	11	C3	32	9B	0D	12	CA
	DF	61	F2	38	3C	A7	83	40	20	10	08	04
	02	81	40	20	10	08	04	02	81	40	20	10
	08	04	02	81	40	20	10	08	04	02	81	40
	20	10	08	04	02	81	40	20	10	08	04	02
	81	40	20	10	08	04	02	81	40	20	10	08
	04	02	81	40	20	10	08	04	02	81	40	20
	10	08	04	02								

ENVELOPE: SMS-CB DOWNLOAD 1.1

Logically:

Cell Broadcast Download
    Device identities
    Source device: Network
    Destination device: UICC
Cell Broadcast page
    Serial Number
    Geographical scope: Cell wide, normal display mode
    Message code: 1
    Update number: 1
    Message Identifier: "1001"
    Data coding Scheme
    Message Coding: 7 bit data
    Message class: No message class
    Page Parameter
    Number of pages: 1
    Page number: 1
    Content of message: "Cell Broadcast "..

Coding:

BER-TLV:	D2	5E	82	02	83	81	8C	58	C0	11	10	01
	F0	11	C3	32	9B	0D	12	CA	DF	61	F2	38
	3C	A7	83	40	20	10	08	04	02	81	40	20
	10	08	04	02	81	40	20	10	08	04	02	81
	40	20	10	08	04	02	81	40	20	10	08	04
	02	81	40	20	10	08	04	02	81	40	20	10
	08	04	02	81	40	20	10	08	04	02	81	40
	20	10	08	04	02	81	40	20	10	08	04	02

Expected Sequence 1.2 (SMS-CB(DATA DOWNLOAD), ENVELOPE(SMS-CB DATA DOWNLOAD), FETCH, MORE TIME, ME does not display message)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-CB (DATA DOWNLOAD) 1.1	Message identifier '10 01'
2	ME → UICC	ENVELOPE (SMS-CB DOWNLOAD) 1.1	
3	UICC → ME		SW1/SW2 '61 0B'
4	ME → UICC	FETCH 1.1	
5	UICC → ME	PROACTIVE COMMAND:MORE TIME 1.1	
6	ME → UICC	TERMINAL RESPONSE	
7	UICC → ME	SW1/SW2 '90 00'	UICC session ended

PROACTIVE COMMAND: MORE TIME 1.1

Logically:

Command details

                Command number: 1
                Command type: MORE TIME
                Command qualifier: "00"
        Device identities
                Source device: UICC
                Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 1.1

Logically:

    Command details
                    Command number: 1
                    Command type: MORE TIME
                    Command qualifier: "00"
        Device identities
                Source device: ME
                Destination device: UICC
        Result
            General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	02	00	82	02	82	81	83	01	00

Expected Sequence 1.3 (SMS-CB (DATA DOWNLOAD), ME displays message)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-CB (DATA DOWNLOAD) 1.2	Message identifier '03 E7'
2a	ME → USER	ME may display the message	
2b	ME → UICC	ME shall not download the CB message to the UICC using ENVELOPE (SMS-CB download)	
3	USER → ME	The user shall use a MMI dependent procedure to initiate the display of the received CB message	[only if message has not been displayed in step 2a]
4	ME → USER	ME displays the message	[only if message has not been displayed in step 2a]

SMS-CB (Data Download) Message 1.2

Logically:

    Message Content
            Serial Number
            Geographical scope: Cell wide, normal display mode
            Message code: 1
            Update number: 1
            Message Identifier: "03E7"
            Data coding Scheme
            Message Coding: 7 bit data
            Message class: No message class
            Page Parameter
            Total number of pages: 1
            Page number: 1
            Content of message: "Cell Broadcast".

Coding:

BER-TLV:	C0	11	03	E7	F0	11	C3	32	9B	0D	12	CA
	DF	61	F2	38	3C	A7	83	40	20	10	08	04
	02	81	40	20	10	08	04	02	81	40	20	10
	08	04	02	81	40	20	10	08	04	02	81	40
	20	10	08	04	02	81	40	20	10	08	04	02
	81	40	20	10	08	04	02	81	40	20	10	08
	04	02	81	40	20	10	08	04	02	81	40	20
	10	08	04	02								

27.22.5.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.6 CALL CONTROL BY USIM

27.22.6.1 Procedure for Mobile Originated calls

27.22.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.6.1.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- 3GPP TS 31.111 [15] clause 7.3

27.22.6.1.3 Test purpose

To verify that for all call set-up attempts , even those resulting from a SET UP CALL proactive UICC command, the ME shall first pass the call set-up details (dialled digits and associated parameters) to the UICC, using the ENVELOPE (CALL CONTROL).

To verify that if the UICC responds with '90 00', the ME shall set up the call with the dialled digits and other parameters as sent to the UICC.

To verify that if the UICC returns response data, the ME shall use the response data appropriately to set up the call as proposed, not set up the call, or set up a call using the data supplied by the UICC.

To verify that, in the case where the initial call set-up request results from a proactive SET UP CALL, if the call control result is "not allowed" or "allowed with modifications", the ME shall inform the UICC using TERMINAL RESPONSE "interaction with call control by UICC or MO short message control by UICC, action not allowed".

To verify that it is possible for the UICC to request the ME to set up an emergency call by supplying the number "112" as the response data.

27.22.6.1.4 Method of tests

27.22.6.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and USS and has performed the location update procedure.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The elementary files are coded as USIM Application Toolkit default with the following exception:

The call control service is allocated and activated in the USIM Service Table.

27.22.6.1.4.2 Procedure

Expected Sequence 1.1 (CALL CONTROL BY USIM , set up call attempt by user, the USIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.1.1A Or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for 3GPP parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"

ENVELOPE CALL CONTROL 1.1.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string   "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (00F110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)

Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

ENVELOPE CALL CONTROL 1.1.1B

Logically:

    Device identities
        Source device: ME
        Destination device: UICC
    Address
        TON: International
        NPI: "ISDN / telephone numbering plan" or "unknown"
        Dialling number string   "01234567890123456789"
    Capability configuration parameters 1
        This parameter is optional. If present, the contents shall not be checked.
    Subaddress
        This parameter is optional. If present, the contents shall not be checked.
    Location Information
        MCC & MNC   the mobile country and network code (001110)
        LAC   the location Area Code (0001)
        Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2
        This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Expected Sequence 1.2 (CALL CONTROL BY USIM , set up call attempt by user, allowed without modification)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.2.1 A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

ENVELOPE CALL CONTROL 1.2.1A

Logically:

    Device identities
        Source device: ME
        Destination device: UICC
    Address
        TON: International
        NPI: "ISDN / telephone numbering plan" or "unknown"
        Dialling number string   "01234567890123456789"

Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (00F110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

ENVELOPE CALL CONTROL 1.2.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string   "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (001110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.2.1

Logically:

    Call control result :   '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

Expected Sequence 1.3A (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	[This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → UICC	ENVELOPE CALL CONTROL 1.3.1A or ENVELOPE CALL CONTROL 1.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
8	ME → USS	The ME sets up the call without modification	[Set up call to "+012340123456"]
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]

Expected Sequence 1.3 B (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → UICC	ENVELOPE CALL CONTROL 1.3.1A or ENVELOPE CALL CONTROL 1.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
5	UICC → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
6	ME → USER	ME displays "+012340123456" during user confirmation phase.	
7	USER → ME	The user confirms the call set up	[user confirmation]
8	ME → USS	The ME sets up the call without modification	[Set up call to "+012340123456"]
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]

PROACTIVE COMMAND: SET UP CALL 1.3.1

Logically:

```
    Command details
        Command number:        1
        Command type:          SET UP CALL
        Command qualifier:     Only if not currently busy on another call
    Device identities
        Source device:         UICC
        Destination device:    Network
    Alpha identifier:          "+012340123456"
    Address
        TON:                   International
```

NPI: "ISDN / telephone numbering plan"
Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.3.1A

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    Address
            TON: International
            NPI: "ISDN / telephone numbering plan" or "unknown"
            Dialling number string "012340123456"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC   the mobile country and network code (00F110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2
            This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	F1	10
	00	01	00	01	Note 4						

ENVELOPE CALL CONTROL 1.3.1B

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    Address
            TON: International
            NPI: "ISDN / telephone numbering plan" or "unknown"
            Dialling number string "012340123456"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC   the mobile country and network code (001110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2
            This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	11	10
	00	01	00	01	Note 4						

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.3.1

Logically:

        Call control result :   '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: Only if not currently busy on another call
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (CALL CONTROL BY USIM , set up call attempt by user, not allowed)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.4.1 A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
4	ME → USS	The ME does not set up the call	

ENVELOPE CALL CONTROL 1.4.1A

Logically:

    Device identities
        Source device: ME
        Destination device: UICC
    Address
        TON: International

| | | NPI: | | | "ISDN / telephone numbering plan" or "unknown" | | | | | | |

NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "+01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (00F110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

ENVELOPE CALL CONTROL 1.4.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "+01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (001110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.4.1

Logically:

        Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 1.5A (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, not allowed)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING	[This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → UICC	ENVELOPE CALL CONTROL 1.5.1A or ENVELOPE CALL CONTROL 1.5.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"]
8	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.5.1	[Permanent Problem - Interaction with Call Control by USIM]
9	ME → USS	The ME does not set up the call	

Expected Sequence 1.5 B (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, not allowed)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"
4	ME → UICC	ENVELOPE CALL CONTROL 1.5.1A or ENVELOPE CALL CONTROL 1.5.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
5	UICC → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"] [No user confirmation phase because Call Control has disallowed the request]
6	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.5.1	[Permanent Problem - Interaction with Call Control by USIM]
7	ME → USS	The ME does not set up the call	

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP CALL
        Command qualifier: Only if not currently busy on another call
    Device identities
        Source device: UICC
        Destination device: Network
    Alpha identifier: "+012340123456"
    Address
        TON: International
        NPI: "ISDN / telephone numbering plan"
        Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.5.1A

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    Address
            TON: International
            NPI: "ISDN / telephone numbering plan" or "unknown"
            Dialling number string   "012340123456"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC   the mobile country and network code (00F110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2
            This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	F1	10
	00	01	00	01	Note 4						

ENVELOPE CALL CONTROL 1.5.1B

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    Address
            TON: International
            NPI: "ISDN / telephone numbering plan" or "unknown"
            Dialling number string   "012340123456"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC   the mobile country and network code (001110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2
            This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	11	10
	00	01	00	01	Note 4						

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets

CALL CONTROL RESULT 1.5.1

Logically:

> Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: Only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Interaction with call control by USIM or MO short message control by USIM, permanent problem
    Additional information: Action not allowed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	02	39
	01											

Expected Sequence 1.6 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.6.1 A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications",]
4	ME → USS	The ME sets up the call to "+010203"	

ENVELOPE CALL CONTROL 1.6.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (00F110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

ENVELOPE CALL CONTROL 1.6.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string   "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (001110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.6.1

Logically:

      Call control result: '02' = Allowed with modifications
   Address
      TON: International
      NPI: "ISDN / telephone numbering plan" or "unknown"
      Dialling number string   "010203"

Coding:

BER-TLV:	02	06	86	04	91	10	20	30

Expected Sequence 1.7A (CALL CONTROL BY USIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING	[This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → UICC	ENVELOPE CALL CONTROL 1.7.1A or ENVELOPE CALL CONTROL 1.7.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
8	ME → USS	The ME sets up the call to "+011111111111"	
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]

Expected Sequence 1.7 B (CALL CONTROL BY USIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	ME → UICC	ENVELOPE CALL CONTROL 1.7.1A or ENVELOPE CALL CONTROL 1.7.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
5	UICC → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
6	ME → USER	ME displays "+012340123456" during user confirmation phase.	
7	USER → ME	The user confirms the call set up	[user confirmation]
8	ME → USS	The ME sets up the call to "+011111111111"	[call is set up to modified address]
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]

PROACTIVE COMMAND: SET UP CALL 1.7.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: Only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: '+012340123456"
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.7.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "012340123456"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (00F110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	F1	10
	00	01	00	01	Note 4						

ENVELOPE CALL CONTROL 1.7.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "012340123456"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress

This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC   the mobile country and network code (001110)
LAC   the location Area Code (0001)
Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	11	10
	00	01	00	01	Note 4						

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.7.1

Logically:

Call control result: '02' = Allowed with modifications
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string   "011111111111"

Coding:

BER-TLV:	02	09	86	07	91	10	11	11	11	11	11

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: Only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

Expected Sequence 1.8 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications: emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.8.1A or ENVELOPE CALL CONTROL 1.8.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters
3	UICC → ME	CALL CONTROL RESULT 1.8.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up an emergency call;	

ENVELOPE CALL CONTROL 1.8.1A

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    Address
            TON: International
            NPI: "ISDN / telephone numbering plan" or "unknown"
            Dialling number string   "01234567890123456789"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC   the mobile country and network code (00F110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2
            This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

ENVELOPE CALL CONTROL 1.8.1B

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    Address
            TON: International
            NPI: "ISDN / telephone numbering plan" or "unknown"
            Dialling number string   "01234567890123456789"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC   the mobile country and network code (001110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
76	98	10	32	54	76	98	Note 2	Note 3	13	07	00	
11	10	00	01	00	01	Note 4						

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.8.1

Logically:

Call control result	Allowed, with modification
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"112"

Coding:

BER-TLV:	02	05	86	03	81	11	F2

Expected Sequence 1.9 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications: number in EF$_{ECC}$)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.9.1A or	[Option A shall apply for GERAN/UTRAN parameters]
		ENVELOPE CALL CONTROL 1.9.1B	[Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.9.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call, but stes up a normal call	

ENVELOPE CALL CONTROL 1.9.1A

Logically:

Device identities	
Source device:	ME
Destination device:	UICC
Address	
TON:	International
NPI:	"ISDN / telephone numbering plan" or "unknown"
Dialling number string	"01234567890123456789"
Capability configuration parameters 1	
This parameter is optional. If present, the contents shall not be checked.	
Subaddress	
This parameter is optional. If present, the contents shall not be checked.	
Location Information	

	MCC & MNC	the mobile country and network code (00F110)
	LAC	the location Area Code (0001)
	Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

ENVELOPE CALL CONTROL 1.9.1B

Logically:

Device identities

	Source device:	ME
	Destination device:	UICC

Address

	TON:	International
	NPI:	"ISDN / telephone numbering plan" or "unknown"
	Dialling number string	"01234567890123456789"

Capability configuration parameters 1

    This parameter is optional. If present, the contents shall not be checked.

Subaddress

    This parameter is optional. If present, the contents shall not be checked.

Location Information

	MCC & MNC	the mobile country and network code (001110)
	LAC	the location Area Code (0001)
	Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.9.1

Logically:

	Call control result	Allowed, with modification

Address

	TON	Unknown
	NPI	"ISDN / telephone numbering plan"
	Address value	"1020"

Coding:

BER-TLV:	02	05	86	03	81	01	02

Expected Sequence 1.10 (CALL CONTROL BY USIM , set up call attempt by user to an emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "112"	
2	ME → UICC	The ME does not send any ENVELOPE CALL CONTROL	
3	ME → USS	The ME sets up an emergency call	

Expected Sequence 1.11 (CALL CONTROL BY USIM , set up call through call register, the USIM responds with '90 00')

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
5	USER → ME	End Call.	
6	USER → ME	Recall the last dialled number	
7	ME → UICC	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
8	UICC → ME	90 00	
9	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
10	USER → ME	End Call.	

Expected Sequence 1.12 (CALL CONTROL BY USIM , set up call through call register, allowed without modification)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
5	User → ME	End the call then call the last dialled number	
6	ME → UICC	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.2.1	
8	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

Expected Sequence 1.13 (CALL CONTROL BY USIM , set up call through call register, not allowed)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers not allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
4	ME → USS	The ME does not set up the call	
5	User → ME	The user calls the last dialled number	
6	ME → UICC	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
8	ME → USS	The ME does not set up the call	

Expected Sequence 1.14 (CALL CONTROL BY USIM , set up call through call register, allowed with modifications)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed with modification by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up the call to "+010203"	
5	User → ME	End call and then set up a call to "+01234567890123456789"	
6	ME → UICC	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
8	ME → USS	The ME sets up the call to "+010203"	

27.22.6.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.14.

27.22.6.2 Procedure for Supplementary (SS) Services

27.22.6.2.1 Definition and applicability

See clause 3.2.2.

27.22.6.2.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

- 3GPP TS 31.111 [15] clause 7.3.1.2.

27.22.6.2.3 Test purpose

To verify that the ME first pass the supplementary service control string corresponding to the supplementary service operation to the USIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the UICC responds with '90 00', the ME shall send the supplementary service operation with the information as sent to the UICC.

To verify that, if the UICC returns response data, the ME shall use the response data appropriately to send the supplementary service operation as proposed, not send the SS operation, or instead send the USS operation using the data supplied by the UICC.

27.22.6.2.4 Method of tests

27.22.6.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The elementary files are coded as USIM Application Toolkit default with the following exception:

The call control service is allocated and activated in the USIM Service Table.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01 ;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

27.22.6.2.4.2 Procedure

Expected Sequence 2.1 (CALL CONTROL BY USIM , send SS, the USIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.1.1A or ENVELOPE CALL CONTROL 2.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	REGISTER 2.1	[The ME sends the supplementary service operation with the information as sent to the UICC]
5	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.1.1A

Logically:

```
Device identities
      Source device:         ME
      Destination device:    UICC
SS String
      TON/NPI:               "FF"
      Dialling number string "*21**10#"
Location Information
      MCC & MNC              the mobile country and network code (00F110)
      LAC                    the location Area Code (0001)
      Cell ID                Cell Identity Value (0001)
```

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	F1	10	00	01	00	01		

ENVELOPE CALL CONTROL 2.1.1B

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    SS String
            TON/NPI: "FF"
            Dialling number string "*21**10#"
    Location Information
            MCC & MNC   the mobile country and network code (001110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	11	10	00	01	00	01		

REGISTER 2.1

Logically (only SS argument):

    ACTIVATE SS ARGUMENT
            SS-Code:
            - Call Forwarding Unconditional
            TeleserviceCode
                - All Tele Services

Coding:

BER-TLV	30	06	04	01	21	83	01	00				

RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from operation code):

    ACTIVATE SS RETURN RESULT
            ForwardingInfo
            SS-Code
            - Call Forwarding Unconditional
            ForwardFeatureList
            ForwardingFeature
            TeleserviceCode
            - All Tele Services
            SS-Status
            - state ind.: operative
            - provision ind.: provisioned
            - registration ind.: registered
            - activation ind.: active

Coding:

BER-TLV	0C	A0	0D	04	01	21	30	08	30	06	83	01
	00	84	01	07								

Expected Sequence 2.2 (CALL CONTROL BY USIM , send SS, allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.2.1A or ENVELOPE CALL CONTROL 2.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 2.2.1	[Call control result: "Allowed without modifications"]
4	ME → USS	REGISTER 2.1	The ME sends the supplementary service operation with the information as sent to the UICC
5	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.2.1A

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    SS String
            TON/NPI: "FF"
            Dialling number string "*21**10#"
    Location Information
            MCC & MNC   the mobile country and network code (00F110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	F1	10	00	01	00	01		

ENVELOPE CALL CONTROL 2.2.1B

Logically:

    Device identities
            Source device: ME
            Destination device: UICC
    SS String
            TON/NPI: "FF"
            Dialling number string "*21**10#"
    Location Information
            MCC & MNC   the mobile country and network code (001110)
            LAC   the location Area Code (0001)
            Cell ID   Cell Identity Value (0001)

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	11	10	00	01	00	01		

CALL CONTROL RESPONSE 2.2.1

Logically:

Call control result	Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 2.3 (CALL CONTROL BY USIM , send SS, not allowed)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.3.1A or ENVELOPE CALL CONTROL 2.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 2.3.1	[Call control result: "Not Allowed"]
4	ME → USS	The ME does not send the supplementary service operation	

ENVELOPE CALL CONTROL 2.3.1A

Logically:

```
Device identities
        Source device:          ME
        Destination device:     UICC
SS String
        TON/NPI:                Unknown
        Dialling number string  "*21#"
Location Information
        MCC & MNC               the mobile country and network code (00F110)
        LAC                     the location Area Code (0001)
        Cell ID                 Cell Identity Value (0001)
```

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	F1	10	00	01	00	01				

ENVELOPE CALL CONTROL 2.3.1B

Logically:

```
Device identities
        Source device:          ME
        Destination device:     UICC
SS String
        TON/NPI:                Unknown
        Dialling number string  "*21#"
Location Information
        MCC & MNC               the mobile country and network code (001110)
        LAC                     the location Area Code (0001)
        Cell ID                 Cell Identity Value (0001)
```

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 2.3.1

Logically:

Call control result   Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 2.4 (CALL CONTROL BY USIM , send SS, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.4.1A or ENVELOPE CALL CONTROL 2.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 2.4.1	[Call control result: "Allowed with modifications"]
4	ME → USS	REGISTER 2.4	[The ME sends the supplementary service operation with the information as sent by the UICC]
5	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.4	

ENVELOPE CALL CONTROL 2.4.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
SS String
    TON/NPI: Unknown
    Dialling number string "*21#"
Location Information
    MCC & MNC   the mobile country and network code (00F110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	F1	10	00	01	00	01				

ENVELOPE CALL CONTROL 2.4.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
SS String

	TON/NPI:	Unknown
	Dialling number string	"*21#"
Location Information		
	MCC & MNC	the mobile country and network code (001110)
	LAC	the location Area Code (0001)
	Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 2.4.1

Logically:

	Call control result	Allowed, with modifications
SS String		
	TON/NPI	"FF"
	SS String	"*#21#"

Coding:

BER-TLV:	02	06	89	04	FF	BA	12	FB

REGISTER 2.4

Logically (only SS argument):

INTERROGATE SS ARGUMENT
    SS-Code
    - Call Forwarding Unconditional

Coding:

BER-TLV	30	03	04	01	21

RELEASE COMPLETE (SS RETURN RESULT) 2.4

Logically (only from operation code):

INTERROGATE SS RESULT
    Call Forwarding Unconditional
    SS-Status
    - state ind.: operative
    - provision ind.: provisioned
    - registration ind.: registered
    - activation ind.: not active

Coding:

BER-TLV	80	01	06						

27.22.6.2.5   Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.4.

27.22.6.3 Interaction with Fixed Dialling Number (FDN)

27.22.6.3.1 Definition and applicability

See clause 3.2.2.

27.22.6.3.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- 3GPP TS 31.111 [15] clause 7.3.1.4.

27.22.6.3.3 Test purpose

To verify that the ME checks that the number entered through the MMI is on the FDN list.

To verify that, if the MMI input does not pass the FDN check, the call shall not be set up.

To verify that, if the MMI input does pass the FDN check, the ME shall pass the dialled digits and other parameters to the UICC, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the UICC responds with "allowed, no modification", the ME shall set up the call as proposed.

To verify that, if the UICC responds with "not allowed", the ME shall not set up the call.

To verify that, if the UICC responds with "allowed with modifications", the ME shall set up the call in accordance with the response from the UICC. If the modifications involve changing the dialled digits, the ME shall not re-check this modified number against the FDN list.

27.22.6.3.4 Method of tests

27.22.6.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The elementary files are coded as SIM Application Toolkit default with the following exceptions:

The call control service is allocated and activated in the USIM Service Table.

Fixed Dialling Number service is enabled.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01 ;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

27.22.6.3.4.2 Procedure

Expected Sequence 3.1 (CALL CONTROL BY USIM , set up a call not in EF_{FDN})

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "4321"	
2	ME → UICC	The ME does not send the ENVELOPE (CALL CONTROL) command to the USIM.	
3	ME → USS	The ME does not set up the call.	

Expected Sequence 3.2 (CALL CONTROL BY USIM , set up a call in EF_{FDN}, the USIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.2.1A or ENVELOPE CALL CONTROL 3.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	The ME sets up the call without modification	[Set up call to "123"]

ENVELOPE CALL CONTROL 3.2.1A

Logically:

```
Device identities
        Source device:          ME
        Destination device:     UICC
Address
        TON                     Unknown
        NPI                     "ISDN / telephone numbering plan"
        Dialling number string  "123"
Capability configuration parameters 1
        This parameter is optional. If present, the contents shall not be checked.
Subaddress
        This parameter is optional. If present, the contents shall not be checked.
Location Information
        MCC & MNC               the mobile country and network code (00F110)
        LAC                     the location Area Code (0001)
        Cell ID                 Cell Identity Value (0001)
Capability configuration parameters 2
        This parameter is optional. If present, the contents shall not be checked.
```

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

ENVELOPE CALL CONTROL 3.2.1B

Logically:

```
Device identities
        Source device:          ME
        Destination device:     UICC
Address
        TON                     Unknown
        NPI                     "ISDN / telephone numbering plan"
```

    Dialling number string   "123"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (001110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	Note 3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Expected Sequence 3.3 (CALL CONTROL BY USIM , set up a call in EF$_{FDN}$, Allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.3.1A or ENVELOPE CALL CONTROL 3.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 3.3.1	[Call control result: "Allowed without modifications"]
4	ME → USS	The ME sets up the call without modification	[Set up call to "9876"]

ENVELOPE CALL CONTROL 3.3.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON   Unknown
    NPI   "ISDN / telephone numbering plan"
    Dialling number string   "9876"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (00F110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

ENVELOPE CALL CONTROL 3.3.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON   Unknown
    NPI   "ISDN / telephone numbering plan"
    Dialling number string "9876"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC   the mobile country and network code (001110)
    LAC   the location Area Code (0001)
    Cell ID   Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets

CALL CONTROL RESPONSE 3.3.1

Logically:

    Call control result   Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 3.4 (CALL CONTROL BY USIM , set up a call in EF$_{FDN}$, Not Allowed)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.4.1A or ENVELOPE CALL CONTROL 3.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 3.4.1	[Call control result: "Not Allowed"]
4	ME → USS	The ME does not set up the call	

ENVELOPE CALL CONTROL 3.4.1A

Logically:

```
    Device identities
            Source device:          ME
            Destination device:     UICC
    Address
            TON                     Unknown
            NPI                     "ISDN / telephone numbering plan"
            Dialling number string  "9876"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC               the mobile country and network code (00F110)
            LAC                     the location Area Code (0001)
            Cell ID                 Cell Identity Value (0001)
    Capability configuration parameters 2
            This parameter is optional. If present, the contents shall not be checked.
```

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

ENVELOPE CALL CONTROL 3.4.1B

Logically:

```
    Device identities
            Source device:          ME
            Destination device:     UICC
    Address
            TON                     Unknown
            NPI                     "ISDN / telephone numbering plan"
            Dialling number string  "9876"
    Capability configuration parameters 1
            This parameter is optional. If present, the contents shall not be checked.
    Subaddress
            This parameter is optional. If present, the contents shall not be checked.
    Location Information
            MCC & MNC               the mobile country and network code (001110)
            LAC                     the location Area Code (0001)
            Cell ID                 Cell Identity Value (0001)
    Capability configuration parameters 2
            This parameter is optional. If present, the contents shall not be checked.
```

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 3.4.1

Logically:

Call control result   Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 3.5 (CALL CONTROL BY USIM , set up a call in EF_{FDN} , Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.5.1A or ENVELOPE CALL CONTROL 3.5.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 3.5.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up the call with data sent by the UICC	[Set up call to "3333"]

ENVELOPE CALL CONTROL 3.5.1A

Logically:

    Device identities
        Source device: ME
        Destination device: UICC
    Address
        TON   Unknown
        NPI   "ISDN / telephone numbering plan"
        Dialling number string   "9876"
    Capability configuration parameters 1
        This parameter is optional. If present, the contents shall not be checked.
    Subaddress
        This parameter is optional. If present, the contents shall not be checked.
    Location Information
        MCC & MNC   the mobile country and network code (00F110)
        LAC   the location Area Code (0001)
        Cell ID   Cell Identity Value (0001)
    Capability configuration parameters 2
        This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note3	13	07	00	F1	10	00	01	00	01	Note 4	

ENVELOPE CALL CONTROL 3.5.1B

Logically:

    Device identities
        Source device: ME
        Destination device: UICC
    Address
        TON   Unknown
        NPI   "ISDN / telephone numbering plan"
        Dialling number string   "9876"
    Capability configuration parameters 1
        This parameter is optional. If present, the contents shall not be checked.

Subaddress
> This parameter is optional. If present, the contents shall not be checked.

Location Information
> MCC & MNC   the mobile country and network code (001110)
> LAC   the location Area Code (0001)
> Cell ID   Cell Identity Value (0001)

Capability configuration parameters 2
> This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 3.5.1

Logically:

> Call control result   Allowed with modifications

Address
> TON   Unknown
> NPI   "ISDN / telephone numbering plan"
> Address value   "3333"

Coding:

BER-TLV:	02	05	86	03	81	33	33

27.22.6.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.5.

27.22.6.4 Support of Barred Dialling Number (BDN) service

27.22.6.4.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the ME. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the ME runs the BDN capability request procedure during UICC-Terminal initialisation. At the time an emergency call is setup using the emergency call code read from the EF_{ECC}, the Rel-4+ ME shall use the category of the emergency service indicated.

27.22.6.4.2 Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the ME shall perform the UICC initialisation procedure as specified.

2) The ME shall prevent call set-up to any number stored in EF_{BDN} if BDN service is enabled.

3) The ME shall allow call set-up to any number stored in EF_{BDN} if BDN service is disabled.

4) Any change to the EF_{BDN} or EF_{EST} does request PIN2.

5) The ME allows call set-up of an emergency call, even if this number is stored in the USIM.

References:

R99: TS 22.101[22], clause 8 and A.19;

Rel-4: TS 22.101[22], clause 9 and A.20;

Rel-5+: TS 22.101[22], clause 10 and A.21;

TS 31.102[14], subclauses 4.2.44, 4.4.2.3, 5.1.1 and 5.3.2;

TS 24.008[10], subclause 10.5.4.33;

TS 31.111[15], subclause 7.3.1.5

27.22.6.4.3   Test purpose

1) To verify that the Terminal rejects call set-up to any number that has an entry in EF$_{BDN}$ if BDN service is enabled.

2) To verify that the Terminal allows call set-up to any number not stored in EF$_{BDN}$.

3) To verify that the Terminal allows emergency call set-up even if the number is stored in EF$_{BDN}$.

4) To verify that the Rel-4+ Terminal reads correctly the emergency service category stored in EF$_{ECC}$.

5) To verify that, if the UICC responds with "not allowed", the ME does not set up the call.

6) To verify that, if the UICC responds with "allowed, no modification", the ME shall set up the call (or the supplementary service operation) as proposed.

7) To verify that, if the UICC responds with "allowed with modifications", the ME sets up the call in accordance with the response from the UICC. If the modifications involve changing the dialled number the ME does not re-check this modified number against the FDN list when FDN is enabled.

8) To verify that updating EF BDN or changing the status of BDN service shall be performed by the use of second application PIN only.

9) To verify that the ME allows call set up to a BDN number if BDN service is disabled.

27.22.6.4.4   Method of tests

27.22.6.4.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is allocated and activated in the USIM Service Table.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

Barred Dialling Number service is enabled.

Fixed Dialling Number service is disabled.

Only prior to the execution of expected sequence 4.3 the FDN service shall be enabled.

The Second Application PIN (key reference 81) shall be enabled, but not verified.

Only in expected sequence 4.2B EF$_{ECC}$ shall be used with the following values:

EF$_{ECC}$ (Emergency Call Codes)

Logically:	Emergency call code:	"122";
	Emergency call code alpha identifier:	"TEST";
	Emergency call Service Category:	"Mountain Rescue".

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	10

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01 ;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

27.22.6.4.4.2 Procedure

Expected Sequence 4.1 (CALL CONTROL BY USIM, BDN service enabled)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "+1357924680"	[Number as stored in record 1 of EF BDN]
2	ME → UICC	ENVELOPE CALL CONTROL 4.1.1	
3	UICC → ME	CALL CONTROL RESULT 4.1.1	[Call control result: "Not Allowed"]
4	ME → USS	The ME does not set up the call	
5	User → ME	The user sets up a call to the number stored in record 1 of EF ADN	
6	ME → UICC	ENVELOPE CALL CONTROL 4.1.2	
7	UICC → ME	CALL CONTROL RESULT 4.1.2	[Call control result: "Allowed without modifications"]
8	ME → USS	The ME sets up the call without modification	
9	User → ME	The user sets up a call to '123456'	
10	ME → UICC	ENVELOPE CALL CONTROL 4.1.3	
11	UICC → ME	CALL CONTROL RESULT 4.1.2	[Call control result: "Allowed without modifications"]
12	ME → USS	The ME sets up the call without modification	
13	User → ME	The user sets up a call to "1111"	
14	ME → UICC	ENVELOPE CALL CONTROL 4.1.4	
15	UICC → ME	CALL CONTROL RESULT 4.1.3	[Call control result: "Allowed with modifications"]
16	ME → USS	The ME sets up the call with data sent by the UICC	[Set up call to "2222"]
17	User → ME	The user shall use a MMI dependent procedure to initiate the disabling of the BDN service	
18	ME → User	Ask for second application PIN verification	
19	User → ME	The user shall enter the second application PIN	
20	ME → UICC	Update EF EST to disable BDN service	
21	UICC → ME	UICC responds with SW = '90 00'	
22	ME → User	Indicate that the BDN service was disabled successfully	
23	User → ME	The user uses the MMI to store the directory number "+876543210" in EF_BDN as barred dialling number 1 (record 1).	[The alpha identifier is not changed.]
24	ME → UICC	Update EF BDN	
25	UICC → ME	UICC responds with SW = '90 00'	
26	ME → User	The user attempts to set up a call to '+876543210'.	
27a	ME → UICC	No Envelope call control is sent	
27b	ME → USS	The ME sets up the call without modification	

ENVELOPE CALL CONTROL 4.1.1

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address

	TON	International
	NPI	"ISDN / telephone numbering plan"
	Dialling number string	"1357924680"
Capability configuration parameters 1		
	This parameter is optional. If present, the contents shall not be checked.	
Location Information		
	MCC & MNC	the mobile country and network code (00F110)
	LAC	the location Area Code (0001)
	Cell ID	Cell Identity Value (0001)
Capability configuration parameters 2		
	This parameter is optional. If present, the contents shall not be checked.	

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	06	91	31	75	29
	64	08	Note 2	13	07	00	F1	10	00	01	00	01
	Note3											

Note 1: Length of BER-TLV is '15' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

ENVELOPE CALL CONTROL 4.1.2

Logically:

Device identities		
	Source device:	ME
	Destination device:	UICC
Address		
	TON	Unknown
	NPI	"ISDN / telephone numbering plan"
	Dialling number string	"1234"
Capability configuration parameters 1		
	This parameter is optional. If present, the contents shall not be checked.	
Location Information		
	MCC & MNC	the mobile country and network code (00F110)
	LAC	the location Area Code (0001)
	Cell ID	Cell Identity Value (0001)
Capability configuration parameters 2		
	This parameter is optional. If present, the contents shall not be checked.	

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	43	Note 2
	13	07	00	F1	10	00	01	00	01	Note 3		

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

ENVELOPE CALL CONTROL 4.1.3

Logically:

Device identities		
	Source device:	ME
	Destination device:	UICC
Address		

TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"123456"

Capability configuration parameters 1

    This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	04	81	21	43	65
	Note 2	13	07	00	F1	10	00	01	00	01	Note 3	

Note 1: Length of BER-TLV is '13' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

ENVELOPE CALL CONTROL 4.1.4

Logically:

Device identities

Source device:	ME
Destination device:	UICC

Address

TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"1111"

Capability configuration parameters 1

    This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	11	11	Note 2
	13	07	00	F1	10	00	01	00	01	Note 3		

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 4.1.1

Logically:

    Call control result   Not Allowed

Coding:

BER-TLV:	01	00

CALL CONTROL RESPONSE 4.1.2

Logically:

      Call control result   Allowed, no modifications

Coding:

BER-TLV:	00	00

CALL CONTROL RESPONSE 4.1.3

Logically:

      Call control result   Allowed with modifications
   Address
      TON   Unknown
      NPI   "ISDN / telephone numbering plan"
      Address value   "2222"

Coding:

BER-TLV:	02	05	86	03	81	22	22

Expected Sequence 4.2A (CALL CONTROL BY USIM, BDN service enabled, interaction with emergency call codes, R99 only)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up an emergency call to an emergency number stored in the terminal.	The used emergency number shall be one of the emergency call codes, which are available when a SIM/USIM is present, according to TS 22.101[22], subclause 8 is used (i.e. "112", or "911").
2a	ME → UICC	No Envelope call control is sent	
2b	ME → USS	The ME shall allow an emergency call by indicating the call setup as "Emergency Call'.	
3	User → ME	End the emergency call.	

Expected Sequence 4.2B (CALL CONTROL BY USIM, BDN service enabled, interaction with emergency call codes, Rel-4+)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up an emergency call to an emergency number stored in the terminal.	The used emergency number shall be one of the emergency call codes, which are available when a SIM/USIM is present, according to TS 22.101[22], subclause 9 (Rel-4) or 10 (Rel-5+) is used (i.e. "112", or "911").
2a	ME → UICC	No Envelope call control is sent	
2b	ME → USS	The ME shall allow an emergency call by indicating the call setup as "Emergency Call".	
3	User → ME	End the emergency call.	
4	User → ME	The user sets up an emergency call to an emergency number stored in the USIM.	
5a	ME → UICC	No Envelope call control is sent	
5b	ME → USS	The ME shall allow an emergency call by sending the emergency service category correctly as 'Mountain Rescue'.	
6	User → ME	End the emergency call.	

Expected Sequence 4.3 (CALL CONTROL BY USIM , FDN and BDN enabled, set up a call in EF_{FDN}, Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → UICC	ENVELOPE CALL CONTROL 4.3.1	
3	UICC → ME	CALL CONTROL RESULT 4.3.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up the call with data sent by the UICC	[Set up call to "24680"the ME does not re-check this modified number against the FDN list]

ENVELOPE CALL CONTROL 4.3.1

Logically:

> Device identities
>> Source device: ME
>> Destination device: UICC
> Address
>> TON   Unknown
>> NPI   "ISDN / telephone numbering plan"
>> Dialling number string "123"
> Capability configuration parameters 1
>> This parameter is optional. If present, the contents shall not be checked.
> Subaddress
>> This parameter is optional. If present, the contents shall not be checked.
> Location Information
>> MCC & MNC   the mobile country and network code (00F110)
>> LAC   the location Area Code (0001)
>> Cell ID   Cell Identity Value (0001)
> Capability configuration parameters 2
>> This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	13	07	00	F1	10	00	01	00	01	Note 3		

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 4.3.1

Logically:

Call control result	Allowed with modifications
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"24680"

Coding:

BER-TLV:	02	06	86	04	81	42	86	F0		

27.22.6.4.5   Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.3.

27.22.6.5   Barred Dialling Number (BDN) service handling for terminals not supporting BDN

27.22.6.5.1   Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the ME. The call restrictions are controlled by the Terminal. If BDN is enabled, an ME which does not support Call Control shall allow emergency calls but shall not allow MO-CS calls.

27.22.6.5.2   Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the ME shall perform the UICC initialisation procedure as specified.

2) The ME shall prevent MO-CS call set-up to any number except to emergency call numbers if the BDN service is enabled.

References:

Rel-5+: TS 22.101[22], clause 10 and A.21;

TS 31.102[14], subclauses 4.2.44, 4.4.2.3, 5.1.1.2 and 5.3.2;

TS 31.111[15], subclause 7.3.1.5

27.22.6.5.3   Test purpose

1) To verify that the Terminal rejects MO-CS call set-up to any number except to emergency call numbers if BDN service is enabled.

2) To verify that the Terminal allows emergency call set-up even if the BDN service is enabled.

27.22.6.5.4 Method of tests

27.22.6.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is allocated and activated in the USIM Service Table.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

Barred Dialling Number service is enabled.

27.22.6.5.4.2 Procedure

Expected Sequence 5.1 (CALL CONTROL BY USIM, BDN service enabled, ME not supporting BDN)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "+1357924680"	[Number as stored in record 1 of EF BDN]
2a	ME → UICC	No ENVELOPE CALL CONTROL is sent	
2b	ME → USS	The ME does not set up the call	
3	User → ME	The user sets up a call to the number stored in record 1 of EF ADN	
4a	ME → UICC	No ENVELOPE CALL CONTROL is sent	
4b	ME → USS	The ME does not set up the call	
5	User → ME	The user sets up an emergency call to "112"	
6a	ME → UICC	No ENVELOPE CALL CONTROL is sent	
6b	ME → USS	The ME sets up the emergency call to "112"	
7	User → ME	The user shall terminate the emergency call after 5 seconds. The ME returns to idle mode.	

27.22.7 EVENT DOWNLOAD

27.22.7.1 MT Call Event

27.22.7.1.1 MT Call Event (normal)

27.22.7.1.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.1.1.2 Conformance requirement

The ME shall support the EVENT: MT Call event as defined in:

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.1.1.3 Test purpose

To verify that the ME informs the UICC that an Event: MT Call has occurred using the ENVELOPE (EVENT DOWNLOAD - MT Call) command.

27.22.7.1.1.4   Method of test

27.22.7.1.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.1.1.4.2   Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -MT Call event)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS → ME	CALL SET UP without CLI	[MT Call Set Up Without CLI]
6	ME → UICC	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.1	
7	USS → ME	CALL DISCONNECT	
8	USS → ME	CALL SET UP with CLI	[MT Call Set Up With CLI]
9	ME → UICC	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.2	
10	USS → ME	CALL DISCONNECT	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

        Command details
                Command number: 1
                Command type: SET UP EVENT LIST
                Command qualifier: '00'
        Device identities
                Source device: UICC
                Destination device: ME
        Event list
                Event 1:   MT call

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	00										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

        Command details
                Command number: 1
                Command type: SET UP EVENT LIST
                Command qualifier: '00'
        Device identities
                Source device: ME
                Destination device: UICC
        Result
                General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - MT CALL 1.1.1

Logically:

Event list:	MT call event
Device identities	
Source device:	Network
Destination device:	UICC
Transaction identifier:	
Ti value:	0 (bit 5-7)
Ti flag:	0 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	00	82	02	83	81	1C	01	00

EVENT DOWNLOAD - MT CALL 1.1.2

Logically:

Event list:	MT call event
Device identities	
Source device:	Network
Destination device:	UICC
Transaction identifier:	
Ti value:	0 (bit 5-7)
Ti flag:	0 (bit 8)
Address:	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"9876"

Coding:

BER-TLV:	D6	0F	19	01	00	82	02	83	81	1C	01	00
	86	03	81	89	67							

27.22.7.1.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.2 Call Connected Event

27.22.7.2.1 Call Connected Event (MT and MO call)

27.22.7.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.2.1.2 Conformance requirement

The ME shall support the EVENT: Call Connected event as defined in:

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.2.1.3   Test purpose

To verify that the ME informs the UICC that an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Connected) command.

27.22.7.2.1.4   Method of test

27.22.7.2.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.2.1.4.2   Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -CALL CONNECTED)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Call Connected active]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS → ME	SETUP	[MT Call] Ti = 0
6	USER → ME	Accept Call Set Up	
7	ME→USS	CONNECT	
8	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Call Connected 1.1.1	
9	USS → ME	DISCONNECT	
10	USER → ME	Initiate Call to "123"	
11	ME → USS	SETUP	[MO Call] Ti = 0
12	USS → ME	CONNECT	
13	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Call Connected 1.1.2	
14	USER → ME	End Call	
15	ME → USS	DISCONNECT	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details

Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - CALL CONNECTED 1.1.1

Logically:

Event list: Call connected
Device identities
Source device: ME
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	82	81	1C	01	80

EVENT DOWNLOAD - CALL CONNECTED 1.1.2

Logically:

Event list: Call connected
Device identities
Source device: Network
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	83	81	1C	01	80

27.22.7.2.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.2.2 Call Connected Event (ME supporting SET UP CALL)

27.22.7.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.7.2.2.2 Conformance requirement

Additionally the ME shall support the SET UP CALL Proactive UICC Command as defined in:

- 3GPP TS 31.111 [15] clause 7.5, clause 6.4.13 and clause 6.6.12.

27.22.7.2.2.3   Test purpose

To verify that the ME informs the UICC that an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Connected) command.

27.22.7.2.2.4   Method of test

27.22.7.2.2.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.2.2.4.2   Procedure

Expected Sequence 2.1 (EVENT DOWNLOAD -CALL CONNECTED, ME supporting SET UP CALL)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1	[EVENT: Call Connected active]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: SET UP CALL 2.1.1	[SAT Call]
8	ME → USER	ME displays "+012340123456" during the user confirmation phase.	ME BEHAVIOUR: SET UP CALL
9	USER → ME	Confirm call set up	
10	ME → USS	SETUP	Ti=0
11	USS → ME	CONNECT	
12	ME → UICC	TERMINAL RESPONSE: SET UP CALL 2.1.1	
13	ME → UICC	ENVELOPE: CALL CONNECTED 2.1.1	

PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP EVENT LIST
    Command qualifier: '00'
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP CALL 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: Only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "+012340123456"
Address
    TON: International
    NPI: "ISDN / telephone numbering plan"
    Dialling number string   "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

TERMINAL RESPONSE: SET UP CALL 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: Only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - CALL CONNECTED 2.1.1

Logically:

Event list: Call connected
Device identities

	Source device:	Network
	Destination device:	UICC
Transaction identifier:		
	Ti value:	0 (bit 5-7)
	Ti flag:	1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	83	81	1C	01	80

27.22.7.2.2.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.3 Call Disconnected Event

27.22.7.3.1 Call Disconnected Event

27.22.7.3.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.3.1.2 Conformance requirement

The ME shall support the EVENT: Call Disconnected event as defined in:

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.3.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Call Disconnected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Disconnected) command.

27.22.7.3.1.4 Method of test

27.22.7.3.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.3.1.4.2   Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -CALL DISCONNECTED)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Call Disconnected active]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS → ME	SETUP	[incoming call] Ti=0
6	USER → ME	Accept Call Set Up	
7	USS → ME	DISCONNECT	[MT DISCONNECT]
8	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.1	
9	USS → ME	SETUP	[incoming call] Ti=0
10	USER → ME	Accept Call Set Up	
11	USS → ME	RELEASE	[MT RELEASE]
12	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.1	
13	USS → ME	SETUP	[incoming call] Ti=0
14	USER → ME	Accept Call Set Up	
15	USS → ME	RELEASE COMPLETE	[MT RELEASE COMPLETE]
16	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.1	
17	USS → ME	SETUP	[incoming call] Ti=0
18	USER → ME	Accept Call Set Up	
19	USER → ME	End Call	
20	ME → USS	DISCONNECT	[MO DISCONNECT]
21	ME → UICC	ENVELOPE: CALL DISCONNECTED 1.1.2A or ENVELOPE: CALL DISCONNECTED 1.1.2B or ENVELOPE: CALL DISCONNECTED 1.1.2C	
22	USS → ME	SETUP	[incoming call] Ti=0
23	USER → ME	Accept Call Set Up	
24	USS → ME	DISCONNECT	[MT DISCONNECT + CAUSE: normal call clearing]
25	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.3A or ENVELOPE: CALL DISCONNECTED 1.1.3B	
26	USS → ME	SETUP	Ti=0
27	USER → ME	Accept Call Set Up	
28	USS	TX POWER to XX	[RADIO LINK FAILURE]
29	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.4A or 1.1.4B	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME

Event list
    Event 1:   Call Disconnected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	02										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP EVENT LIST
    Command qualifier: '00'
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.1

Logically:

Event list: Call Disconnected
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause:

Coding:

BER-TLV:	D6	0A	19	01	02	82	02	83	81	1C	01	00

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2A

Logically:

Event list: Call Disconnected
Device identities
    Source device: ME
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	02	82	02	82	81	1C	01	80

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2B

Logically:

Event list: Call Disconnected
Device identities
    Source device: ME
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 1 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	82	81	1C	01	80
	9A	02	60	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2C

Logically:

Event list: Call Disconnected
Device identities
    Source device: ME
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 1 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	82	81	1C	01	80
	9A	02	E0	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.3A

Logically:

Event list: Call Disconnected
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	83	81	1C	01	00
	9A	02	60	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.3B

Logically:

Event list: Call Disconnected
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	83	81	1C	01	00
	9A	02	E0	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.4A

Logically:

Event list:	Call Disconnected
Device identities	
Source device:	ME
Destination device:	UICC
Transaction identifier:	
Ti value:	0 (bit 5-7)
Ti flag:	1 (bit 8)
Cause:	radio link failure

Coding:

BER-TLV:	D6	0C	19	01	02	82	02	82	81	1C	01	80
	9A	00										

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.4B

Logically:

Event list:	Call Disconnected
Device identities	
Source device:	ME
Destination device:	UICC
Transaction identifier:	
Ti value:	0 (bit 5-7)
Ti flag:	0 (bit 8)
Cause:	radio link failure

Coding:

BER-TLV:	D6	0C	19	01	02	82	02	82	81	1C	01	00
	9A	00										

27.22.7.3.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.4 Location Status Event

27.22.7.4.1 Location Status Event (normal)

27.22.7.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.4.1.2 Conformance requirement

The ME shall support the EVENT: Location Status event as defined in:

- 3GPP TS 31.111 [15] clause 7.5 and clause 6.4.16.

27.22.7.4.1.3   Test purpose

To verify that the ME informs the UICC that an Event: MM_IDLE state has occurred using the ENVELOPE (EVENT DOWNLOAD - Location Status) command.

27.22.7.4.1.4   Method of test

27.22.7.4.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01 ;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001;

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

Two cells are defined. Cell 1 has location area code 1 and cell 2 has location area code 2.

MS is in service on Cell 1.

27.22.7.4.1.4.2   Procedure

Expected Sequence 1.1(EVENT DOWNLOAD -LOCATION STATUS)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS	Cell 1 is switched off	
6	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.1	
7	USS	Cell 2 is switched on 5 seconds after cell 1 was switched off	
8	ME	ME performs cell reselection to cell 2	
9	ME → USS	Location Updating Request	
10	USS → ME	Location updating accept	
11	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.2A or ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.2B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters] [NOTE: The inclusion of the location information is optional: (If location status indicates normal status)

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Location status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	03										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

ETSI

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - LOCATION STATUS 1.1.1

Logically:

Event list:	Location status
Device identities	
Source device:	ME
Destination device:	UICC
Location status:	No service

Coding:

BER-TLV:	D6	0A	19	01	03	82	02	82	81	1B	01	02

EVENT DOWNLOAD - LOCATION STATUS 1.1.2A

Logically:

Event list:	Location status
Device identities	
Source device:	ME
Destination device:	UICC
Location status:	normal service
Location Information	
MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0002)
Cell ID	Cell Identity Value (0002)

Coding:

BER-TLV:	D6	13	19	01	03	82	02	82	81	1B	01	00
	13	07	00	F1	10	00	02	00	02			

EVENT DOWNLOAD - LOCATION STATUS 1.1.2B

Logically:

Event list:	Location status
Device identities	
Source device:	ME
Destination device:	UICC
Location status:	normal service
Location Information	
MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0002)
Cell ID	Cell Identity Value (0002)

Coding:

BER-TLV:	D6	13	19	01	03	82	02	82	81	1B	01	00
	13	07	00	11	10	00	02	00	02			

27.22.7.4.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.5 User Activity Event

27.22.7.5.1 User Activity Event (normal)

27.22.7.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.5.1.2 Conformance Requirement

The ME shall support the EVENT DOWNLOAD -USER ACTIVITY as defined in:

- 3GPP TS 31.111 [15] clause 5.2, clause 6.4.16, clause 6.8, clause 6.6.16, clause 6.11, clause 7.5, clause 8.6 and clause 8.25.

27.22.7.5.1.3 Test purpose

To verify that the ME performed correctly the procedure of USER ACTIVITY EVENT.

27.22.7.5.1.4 Method of Test

27.22.7.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.7.5.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -USER ACTIVITY)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list: event User Activity]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[set up event list: event User Activity]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	USER → ME	press any key	
6	ME → UICC	ENVELOPE EVENT DOWNLOAD -USER ACTIVITY 1.1.1	
7	USER → ME	press any key	check if no envelope Event Download-User activity sending to the UICC (this event is reported once)

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

```
Command details
        Command number:        1
        Command type:          SET UP EVENT LIST
        Command qualifier:     RFU
Device identities
        Source device:         UICC
        Destination device:    ME
Event list                     User Activity
```

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	04										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: RFU
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD -USER ACTIVITY 1.1.1

Logically:

    Event list   User Activity
    Device identities
        Source device: ME
        Destination device: UICC

Coding:

BER-TLV:	D6	07	19	01	04	82	02	82	81

27.22.7.5.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.6 Idle screen available event

27.22.7.6.1 Idle Screen Available (normal)

27.22.7.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.6.1.2 Conformance requirement

The ME shall support the EVENT: IDLE SCREEN AVAILABLE event as defined in:

• 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.6.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Idle Screen Available has occurred using the ENVELOPE (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE) command.

27.22.7.6.1.4   Method of test

27.22.7.6.1.4.1   Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.7.6.1.4.2   Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select screen other than the ME idle screen	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[set up event list: idle screen available]
4	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list: idle screen available]
5	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
6	USER → ME	Select ME idle screen	
7	ME → UICC	ENVELOPE: IDLE SCREEN AVAILABLE 1.1.1	
8	USER → ME	Select screen other than the ME idle screen	
9	USER → ME	Select ME idle screen	
10	ME → USIM	ENVELOPE: IDLE SCREEN AVAILABLE shall not be sent to the USIM	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

       Command details
              Command number: 1
              Command type: SET UP EVENT LIST
              Command qualifier: '00'
       Device identities
              Source device: UICC
              Destination device: ME
       Event list
              Event 1:   idle screen available

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	05										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

       Command details
              Command number: 1
              Command type: SET UP EVENT LIST
              Command qualifier: '00'

Device identities
        Source device: ME
        Destination device: UICC
Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - IDLE SCREEN AVAILABLE 1.1.1

Logically:

Event list   Idle screen available
Device identities
        Source device: Display
        Destination device: UICC

Coding:

BER-TLV:	D6	07	19	01	05	82	02	02	81

27.22.7.6.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.7 Card reader status event

27.22.7.7.1 Card Reader Status (normal)

27.22.7.7.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.7.1.2 Conformance requirement

The ME shall support the EVENT: Call Card Reader Status event as defined in:

- 3GPP TS 31.111 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, clause 8.25, clause 8.33, annex F, annex G, clause 8.25 and clause 8.7.

27.22.7.7.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.7.7.1.4 Method of test

27.22.7.7.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.7.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD, Card reader status, Card reader 1, card reader attached, no card inserted)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Card Reader Status]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Successfully]
5	User → ME	Insert a card in Reader	
6	ME → UICC	ENVELOPE: CARD READER STATUS 1.1.1a or ENVELOPE: CARD READER STATUS 1.1.1b Or ENVELOPE: CARD READER STATUS 1.1.1c Or ENVELOPE: CARD READER STATUS 1.1.1d	
7	User → ME	Remove the card from Reader	
8	ME → UICC	ENVELOPE: CARD READER STATUS 1.1.2a Or ENVELOPE: CARD READER STATUS 1.1.2b Or ENVELOPE: CARD READER STATUS 1.1.2c Or ENVELOPE: CARD READER STATUS 1.1.2d	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Card Reader Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	06								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST

	Command qualifier:	'00'
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1a

Logically:

Event list	
Event 1:	Card Reader Status
Device identities	
Source device:	ME
Destination device:	UICC
Card reader status	
Identity of card reader:	01
Card reader removable:	Yes
Card reader present:	Yes
Card reader ID-1 size:	Yes
Card present in reader:	Yes
Card powered:	No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	79

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1b

Logically:

Event list	
Event 1:	Card Reader Status
Device identities	
Source device:	ME
Destination device:	UICC
Card reader status	
Identity of card reader:	01
Card reader removable:	Yes
Card reader present:	Yes
Card reader ID-1 size:	No
Card present in reader:	Yes
Card powered:	No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	59

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1c

Logically:

Event list	
Event 1:	Card Reader Status
Device identities	
Source device:	ME
Destination device:	UICC

Card reader status
    Identity of card reader: 01
    Card reader removable: No
    Card reader present: Yes
    Card reader ID-1 size: Yes
    Card present in reader: Yes
    Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	71

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1d

Logically:

Event list
    Event 1: Card Reader Status
Device identities
    Source device: ME
    Destination device: UICC
Card reader status
    Identity of card reader: 01
    Card reader removable: No
    Card reader present: Yes
    Card reader ID-1 size: No
    Card present in reader: Yes
    Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	51

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2a

Logically:

Event list
    Event 1: Card Reader Status
Device identities
    Source device: ME
    Destination device: UICC
Card reader status
    Identity of card reader: 01
    Card reader removable: Yes
    Card reader present: Yes
    Card reader ID-1 size: Yes
    Card present in reader: No
    Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	39

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2b

Logically:

Event list
    Event 1: Card Reader Status
Device identities
    Source device: ME

        Destination device: UICC
    Card reader status
        Identity of card reader: 01
        Card reader removable: Yes
        Card reader present: Yes
        Card reader ID-1 size: No
        Card present in reader: No
        Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	19

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2c

Logically:

    Event list
        Event 1:   Card Reader Status
    Device identities
        Source device: ME
        Destination device: UICC
    Card reader status
        Identity of card reader: 01
        Card reader removable: No
        Card reader present: Yes
        Card reader ID-1 size: Yes
        Card present in reader: No
        Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	31

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2d

Logically:

    Event list
        Event 1:   Card Reader Status
    Device identities
        Source device: ME
        Destination device: UICC
    Card reader status
        Identity of card reader: 01
        Card reader removable: No
        Card reader present: Yes
        Card reader ID-1 size: No
        Card present in reader: No
        Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	11

27.22.7.7.1.5   Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.7.2 Card Reader Status(detachable card reader)

27.22.7.7.2.1 Definition and applicability

See clause 3.2.2.

27.22.7.7.2.2 Conformance requirement

The ME shall support the EVENT: Call Card Reader Status event as defined in:

- 3GPP TS 31.111 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, clause 8.25, clause 8.33, annex F, annex G, clause 8.25 and clause 8.7.

27.22.7.7.2.3 Test purpose

To verify that the ME informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen as an example.

27.22.7.7.2.4 Method of test

27.22.7.7.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.7.2.4.2 Procedure

Expected Sequence 2.1 (EVENT DOWNLOAD, Detachable reader, Card reader 1, detachable card reader not attached, no card inserted)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND 1.1.1PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[SET UP EVENT: Card Reader Status]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Successfully]
5	User → ME	Attach the Card Reader to ME	
6	ME → UICC	ENVELOPE: CARD READER STATUS 2.1.1a Or ENVELOPE: CARD READER STATUS 2.1.1b	
7	User → ME	Detach the Card Reader from ME	
8	ME → UICC	ENVELOPE: CARD READER STATUS 2.1.2a Or ENVELOPE: CARD READER STATUS 2.1.2b	

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.1a

Logically:

Event list

Event 1: Card Reader Status
Device identities
    Source device: ME
    Destination device: UICC
Card reader status
    Identity of card reader: 01
    Card reader removable: Yes
    Card reader present: Yes
    Card reader ID-1 size: Yes
    Card present in reader: No
    Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	39

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.1b

Logically:

Event list
    Event 1: Card Reader Status
Device identities
    Source device: ME
    Destination device: UICC
Card reader status
    Identity of card reader: 01
    Card reader removable: Yes
    Card reader present: Yes
    Card reader ID-1 size: No
    Card present in reader: No
    Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	19

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2a

Logically:

Event list
    Event 1: Card Reader Status
Device identities
    Source device: ME
    Destination device: UICC
Card reader status
    Identity of card reader: 01
    Card reader removable: Yes
    Card reader present: No
    Card reader ID-1 size: Yes
    Card present in reader: No
    Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	29

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2b

Logically:

Event list
    Event 1:   Card Reader Status
Device identities
    Source device: ME
    Destination device: UICC
Card reader status
    Identity of card reader: 01
    Card reader removable: Yes
    Card reader present: No
    Card reader ID-1 size: No
    Card present in reader: No
    Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	09

27.22.7.7.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 2.1'.

27.22.7.8 Language selection event

27.22.7.8.1 Language selection event (normal)

27.22.7.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.8.1.2 Conformance requirement

The ME shall support the EVENT: LANGUAGE SELECTION event as defined in:

* 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.8.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Language selection has occurred using the ENVELOPE (EVENT DOWNLOAD - LANGUAGE SELECTION) command.

27.22.7.8.1.4 Method of test

27.22.7.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The current language shall have been set to English. Another language has to be supported, German is an example.

27.22.7.8.1.4.2   Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - LANGUAGE SELECTION)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list: language selection]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[set up event list: language selection]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	USER → ME	Change the language to German.	
6	ME → UICC	ENVELOPE: LANGUAGE SELECTION 1.1.1	
7	USER → ME	Change the language to English	
8	ME → UICC	ENVELOPE: LANGUAGE SELECTION 1.1.2	check if an envelope Event Download-language selection is sending again to the UICC (this event is continuously reported)

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   language selection

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	07										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - LANGUAGE SELECTION 1.1.1

Logically:

    Event list   Language selection

Device identities
    Source device: ME
    Destination device: UICC
Language
    Language   'de'→64 65 (German)

Coding:

BER-TLV:	D6	0B	19	01	07	82	02	82	81	2D	02	64
	65											

EVENT DOWNLOAD - LANGUAGE SELECTION 1.1.2

Logically:

Event list   Language selection
Device identities
    Source device: ME
    Destination device: UICC
Language
    Language   'en'→65 6E (English)

Coding:

BER-TLV:	D6	0B	19	01	07	82	02	82	81	2D	02	65
	6E											

27.22.7.8.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.9 Browser termination event

27.22.7.9.1 Browser termination (normal)

27.22.7.9.1.1 Definition and applicability

This test is only applicable to ME's that support the EVENT: browser termination event driven information.

27.22.7.9.1.2 Conformance requirement

The ME shall support the EVENT: Browser termination event as defined in:

- 3GPP TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, , clause 8.25, clause 8.51, annex F and clause 8.7.

27.22.7.9.1.3 Test purpose

To verify that the ME informs the UICC of an Event: Browser termination using the ENVELOPE (EVENT DOWNLOAD - Browser Termination) command.

This test applies for MEs which have a browser.

27.22.7.9.1.4 Method of test

27.22.7.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

A valid access to a Wap gateway is required. The default browser parameters (IP address, gateway/proxy identity, called number…) of the tested mobile shall be properly filled to access that gateway.

27.22.7.9.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - Browser termination)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Browser termination Status]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Successfully]
5	User→ME	Launch the browser with the URL selected by the user	
6	ME→USS	The ME attempts to launch the session with the default browser parameters and the URL selected by the user.	
7	User→ME	Stop the session and the browser.	
8	ME→ UICC	ENVELOPE: BROWSER TERMINATION 1.1.1	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Browser termination

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	08								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE: EVENT DOWNLOAD BROWSER TERMINATION 1.1.1

Logically:

Event list	
Event 1:	Browser termination
Device identities	
Source device:	ME
Destination device:	UICC
Browser termination cause:	User termination

Coding:

BER-TLV:	D6	0A	99	01	08	82	02	82	81	B4	01	00

27.22.7.9.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.10   Data available event

27.22.7.10.1   Definition and applicability

See clause 3.2.2.

27.22.7.10.2   Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Data available).

27.22.7.10.3   Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Data available) to the UICC after the ME receives a packet of data from the server by the BIP channel previously opened.

27.22.7.10.4   Method of test

27.22.7.10.4.1   Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure. The UICC must have sent the SET UP EVENT LIST to the ME to supply a set of events (event Data available).

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, for test cases using packet services:

Bearer Parameters

Precedence Class: 02

    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
GPRS Parameters

    Network access name: TestGp.rs
    User login: UserLog
    User password: UserPwd
UICC/ME interface transport level

    Transport format: UDP
    Port number: 44444
    Data destination address 01.01.01.01

27.22.7.10.4.2   Procedure

Expected sequence 1.1 (EVENT DOWNLOAD - Data available)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	[Command performed successfully]
4	ME → USER	The ME may display channel opening information	
5	ME → USS	SETUP CALL	
6	USS → ME	CONNECTED	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	
8	USS → ME	Data sent through the BIP channel	
9	ME → UICC	ENVELOPE 1.1.1 (Event-Data Available)	

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Address
        TON: International number
        NPI: ISDN / telephone numbering plan
        Dialling number string "112233445566778"
    Bearer description
        Bearer type: CSD
        Bearer parameter
            Data rate: 9600bps V.32
            Bearer service: data circuit asynchronous UDI
            Connection element: non-transparent
    Buffer size   1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established
    Bearer description
        Bearer type: CSD
        Bearer parameter
            Data rate: 9600bps V.32
            Bearer service: data circuit asynchronous
            Connection element: non-transparent
    Buffer size   1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Bearer
        Bearer type: GPRS
        Bearer parameter:
            Precedence Class: 02
            Delay Class: 04
            Reliability Class: 05
            Peak throughput class: 05
            Mean throughput class: 16
            Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1000
    Text String: UserLog (User login)
    Text String: UserPwd (User password)
    UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
    Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established or PDP context activated
    Bearer description
        Bearer type: GPRS
        Bearer parameter:
            Precedence Class: 02
            Delay Class: 04
            Reliability Class: 05
            Peak throughput class: 05
            Mean throughput class: 16
            Packet data protocol: 02 (IP)
    Buffer
        Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

Logically:

    Event list
        Event: Data available
    Device identities
        Source device: ME
        Destination device: UICC
    Channel status
        Channel status: Channel 1 open, link established
    Channel Data Length
        Channel data length: 8 Bytes available in Rx buffer

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
	00	B7	01	08								

27.22.7.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.11 Channel Status event

27.22.7.11.1 Definition and applicability

See clause 3.2.2.

27.22.7.11.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 31.111 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Channel Status).

27.22.7.11.3 Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Channel Status) to the UICC after the link dropped between the NETWORK and the ME.

27.22.7.11.4 Method of test

27.22.7.11.4.1 Initial conditions

The ME is connected to the USIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.7.11.4.2 Procedure

Expected sequence 1.1 (EVENT DOWNLOAD - Channel Status on a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: channel status]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	SETUP CALL	
10	USS → ME	CONNECTED	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Link dropped	
13	ME → UICC	ENVELOPE 1.1.1 (Event-Channel Status)	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: UICC
        Destination device: ME
    Event list
        Event 1:   Channel Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	0A								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SET UP EVENT LIST
        Command qualifier: '00'
    Device identities
        Source device: ME
        Destination device: UICC

Result

    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: UICC
        Destination device: ME
    Address
        TON: International number
        NPI: ISDN / telephone numbering plan
        Dialling number string   "112233445566778"
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 9600bps V.32
        Bearer service: data circuit asynchronous UDI
        Connection element: non-transparent
    Buffer size   1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

    Command details
        Command number: 1
        Command type: OPEN CHANNEL
        Command qualifier: immediate link establishment
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully
    Channel status   Channel identifier 1 and link established
    Bearer description
        Bearer type: CSD
        Bearer parameter
        Data rate: 9600bps V.32
        Bearer service: data circuit asynchronous
        Connection element: non-transparent
    Buffer size   1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02

03	E8									

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1000
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address   01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel status   Channel identifier 1 and link established or PDP context activated
Bearer description
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 02
    Delay Class: 04
    Reliability Class: 05
    Peak throughput class: 05
    Mean throughput class: 16
    Packet data protocol: 02 (IP)

Buffer
    Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

ENVELOPE: EVENT DOWNLOAD - Channel Status 1.1.1

Logically:

Event list
    Event: Channel Status
Device identities
    Source device: ME
    Destination device: UICC
Channel status
    Channel status: Channel 1, link dropped

Coding:

BER-TLV:	D6	0B	99	01	09	82	02	82	81	B8	02	01
	05											

27.22.7.11.1.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.12   Access Technology Change event

TBD

27.22.7.13   Local Connection event

TBD

27.22.7.14   Network search mode change event

TBD

27.22.7.15   Browsing status event

TBD

27.22.8   MO SHORT MESSAGE CONTROL BY USIM

27.22.8.1   Definition and applicability

See clause 3.2.2.

27.22.8.2   Conformance requirement

The ME shall support the MO SEND SHORT MESSAGE CONTROL facility as defined in:

- 3GPP TS 31.111 [15] clause 7.3.2.

The ME shall also support the SEND SMS facitily as specified in

- 3GPP TS 31.111 [15] clause 6.4.10

27.22.8.3 Test purpose

To verify that for all SMS sending attempts, even those resulting from a SEND SHORT MESSAGE proactive UICC command, the ME shall first pass the RP_destination_address of the service center and the TP_Destination_Address to the UICC, using the ENVELOPE (MO Short Message CONTROL).

To verify that if the UICC responds with '90 00', the ME shall send the SMS with the address unchanged.

To verify that if the UICC responds with '93 00', the ME shall not send the SMS and may retry the command.

To verify that if the UICC returns response data, the ME shall use the response data appropriately to send the SM as proposed, not send the SM, or send the SM using the data supplied by the UICC.

To verify that, in the case where the initial SM request results from a proactive SEND SHORT MESSAGE, if the MO SMS CONTROL result is "not allowed" or "allowed with modifications", the ME shall inform the UICC using TERMINAL RESPONSE "interaction with call control by UICC or MO short message control by USIM, action not allowed".

27.22.8.4 Method of tests

27.22.8.4.1 Initial conditions

The ME is connected to the System Simulator and the USIM Simulator.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The MO SMS control service is enabled.

The SMS service center address in the ME shall be set to '+112233445566778' prior to the execution of the tests.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001;

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;

- Location Area Code (LAC) = 0001;

- Cell Identity value = 0001.

27.22.8.4.2 Procedure

Expected Sequence 1.1 (MO SM CONTROL BY USIM , with Proactive command, Allowed, no modification')

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A Or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	MO SMS CONTROL RESULT 1.1.1	['Allowed, no modification']
7	ME -> USS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
8	USS -> ME	SMS RP-ACK	
9	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: SEND SHORT MESSAGE
        Command qualifier: packing not required
    Device identities
        Source device: UICC
        Destination device: Network
        Alpha identifier: "Send SM"
    Address
        TON: International number
        NPI: "ISDN / telephone numbering plan"
        Dialling number string "112233445566778"
    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "00"
        TP-DA
        TON   International number
        NPI   "ISDN / telephone numbering plan"
        Address value   "012345678"
        TP-PID   Short message type 0
        TP-DCS
        Message coding   8-bit data
        Message class   class 0
        TP-UDL   12
        TP-UD   "Test Message"

Coding:

BER-TLV:	D0	37	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65			

SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1A

Logically:

Device identities

Source device:	ME
Destination device:	UICC

RP Destination Address

TON:	International
NPI:	"ISDN / telephone numbering plan" or "unknown"
Dialling number string	'112233445566778'

TP Destination Address

TON:	International
NPI:	"ISDN / telephone numbering plan" or "unknown"
Dialling number string	'012345678'

Location Information

MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D5	20	02	02	82	81	06	09	91	11	22
	33	44	55	66	77	F8	06	06	91	10	32
	54	76	F8	13	07	00	F1	10	00	01	00
	01										

ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
RP Destination Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string '112233445566778'
TP Destination Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string '012345678'
Location Information
    MCC & MNC the mobile country and network code (001110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D5	20	02	02	82	81	06	09	91	11	22
	33	44	55	66	77	F8	06	06	91	10	32
	54	76	F8	13	07	00	11	10	00	01	00
	01										

MO SHORT MESSAGE CONTROL RESULT 1.1.1

Logically:

    MO Short Message control result : '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (MO SM CONTROL BY USIM , with user SMS, Allowed, no modification')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC -> ME	MO SHORT MESSAGE CONTROL RESULT 1.1.1	['Allowed, no modification']
4	ME -> USS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2 without modification]
5	USS -> ME	SMS RP-ACK	

SMS-PP (SEND SHORT MESSAGE) Message 1.2

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

	01	01	09	91	10	32	54	76	F8	00	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

Expected Sequence 1.3 (MO SM CONTROL BY USIM , with Proactive command, Not allowed')

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	MO SHORT MESSAGE CONTROL RESULT 1.3.1	['not Allowed']
7	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1	[Permanent Problem - Interaction with Call Control or MO short message control by USIM]
8	ME→ USS	The ME does not send the Short Message	

MO SHORT MESSAGE CONTROL RESULT 1.3.1

Logically:

    MO Short Message control result : '01' = Not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1

Logically:

Command details	
Command number:	01
Command Type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Interaction with call control or MO-SM by USIM permanent problem
Additional information:	Action not allowed

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	02	39
	01											

Expected Sequence 1.4 (MO SM CONTROL BY USIM , with user SMS, Not allowed ')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME -> UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC -> ME	MO SM CONTROL RESULT 1.3.1	['Not allowed']
4	ME → USS	The ME does not send the Short Message	

Expected Sequence 1.5 (MO SM CONTROL BY USIM , with Proactive command, Allowed with modifications')

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to '+012345678'
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	MO SM CONTROL RESULT 1.5.1	['Allowed with modifications']
7	ME -> USS	Send SMS-PP Message 1.5	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.5 with the data provided by the UICC to the changed Service Center Adress '+112233445566779']
8	USS -> ME	SMS RP-ACK	
9	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	

MO SHORT MESSAGE CONTROL RESULT 1.5.1

    Logically:
        MO Short Message control result : '02' = Allowed with modifications
    RP Destination_Address of the Service Center
        TON: International
        NPI: "ISDN / telephone numbering plan" or "unknown"
        Dialling number string: '112233445566779'
    TP Destination Address
        TON: International
        NPI: "ISDN / telephone numbering plan" or "unknown"
        Dialling number string: '012345679'

Coding:

02	13	86	09	91	11	22	33	44	55	66
77	F9	86	06	91	10	32	54	76	F9	

SMS-PP (SEND SHORT MESSAGE) Message 1.5

Logically:

    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "01"
        TP-DA
        TON   International number
        NPI   "ISDN / telephone numbering plan"
        Address value   "012345679"
        TP-PID   Short message type 0

ETSI

TP-DCS
Message coding   8-bit data
Message class   class 0
TP-UDL   12
TP-UD   "Test Message"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F9	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1

    Logically:
        Command details
        Command number: 01
        Command Type: SEND SHORT MESSAGE
        Command qualifier: packing not required
        Device identities
        Source device: ME
        Destination device: UICC
        Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.6 (MO SM CONTROL BY USIM , with user SMS, Allowed with modifications')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC -> ME	MO SM CONTROL RESULT 1.5.1	['Allowed with modifications']
4	ME-> USS	Send SMS-PP Message 1.6	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1. 6 with the data provided by the UICC to the changed Service Center Adress '+112233445566779']
5	USS -> ME	SMS RP-ACK	

SMS-PP (SEND SHORT MESSAGE) Message 1.6

Logically:

    SMS TPDU
        TP-MTI   SMS-SUBMIT
        TP-RD   Instruct the SC to accept an SMS-SUBMIT for a SM
        TP-VPF   TP-VP field not present
        TP-RP   TP-Reply-Path is not set in this SMS-SUBMIT
        TP-UDHI   The TP-UD field contains only the short message
        TP-SRR   A status report is not requested
        TP-MR   "01"
        TP-DA
        TON   International number

NPI	"ISDN / telephone numbering plan"	
Address value	"012345679"	
TP-PID	0	
TP-DCS		
Message coding	8-bit data	
Message class	class 0	
TP-UDL	12	
TP-UD	"Test Message"	

Coding:

01	01	09	91	10	32	54	76	F9	00	F4	0C
54	65	73	74	20	4D	65	73	73	61	67	65

Expected Sequence 1.7 (MO SM CONTROL BY USIM , with Proactive command, the USIM responds with '90 00', Allowed, no modification)

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to '+012345678'
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	90 00	
7	ME ->USS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
8	USS -> ME	SMS RP-ACK	
9	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

Expected Sequence 1.8 (MO SM CONTROL BY USIM , Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no modification)

Step	Direction	Message / Action	Comments
1	User → ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME → UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1 A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
5	USS -> ME	SMS RP-ACK	

Expected Sequence 1.9 (MO SM CONTROL BY USIM , Send Short Message attempt by user, the USIM responds with '93 00")

Step	Direction	Message / Action	Comments
1	User → ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME → UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	93 00	
4	ME → USS	No action allowed	[The ME shall not send the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2or any other SM to the USS]

27.22.8.5   Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.9.

27.22.9   Handling of command number

27.22.9.1   Definition and applicability

See clause 3.2.2.

27.22.9.2   Conformance requirement

The ME shall support the facility as defined in ETSI TS 102 223 [16] clause 6.5.1, clause 6.8 and clause 8.6

27.22.9.3   Test purpose

To verify that the ME sends a Terminal Response with the Command number equivalent to the value in the corresponding proactive command.

27.22.9.4   Method of tests

27.22.9.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

The ME shall support the DISPLAY TEXT command.

27.22.9.4.2   Procedure

Expected Sequence 1.1 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.1	
2	ME → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.1.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
4	ME → USER	Display "Toolkit Test 1"	
5	USER → ME	Clear Message	
6	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.1	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.1.2	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
10	ME → USER	Display "Toolkit Test 2"	
11	USER → ME	Clear Message	
12	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.2	[Command performed successfully]
13	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.3	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.1.3	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
16	ME → USER	Display "Toolkit Test 3"	
17	USER → ME	Clear Message	
18	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.3	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Toolkit Test 1"

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.1

Logically:

    Command details
        Command number: 1
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

ETSI

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 1.1.2

Logically:

    Command details
        Command number: 254
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Toolkit Test 2"

Coding:

BER-TLV:	D0	1A	81	03	FE	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	32								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.2

Logically:

    Command details
        Command number: 254
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	FE	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 1.1.3

Logically:

    Command details
        Command number: 173
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: UICC
        Destination device: Display
    Text String
        Data coding scheme: unpacked, 8 bit data
        Text: "Toolkit Test 3"

Coding:

BER-TLV:	D0	1A	81	03	AD	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	33								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.3

Logically:

    Command details
        Command number: 173
        Command type: DISPLAY TEXT
        Command qualifier: normal priority, wait for user to clear message
    Device identities
        Source device: ME
        Destination device: UICC
    Result
        General Result: Command performed successfully

Coding:

BER-TLV:	81	03	AD	21	80	82	02	82	81	83	01	00

27.22.9.5   Test requirement

The ME shall operate in the manner defined in expected sequence 1.1

Annex A (normative): Details of Test-SIM (TestSIM)

The TestSIM shall be able to present the following data:

ANSWER TO RESET

Logically:

TS (Initial character):	'3B'
T0 (Format character):	'86' (Following interface characters: TD(1), number of historical characters: 6)
TD1:	'00' (Following interface characters: none, Transfer protocol: T=0)
T1:	91
T2:	99
T3:	00
T4:	12
T5:	C1
T6:	00

Coding:

BER-TLV:	3B	86	00	91	99	00	12	C1	00

1. For a successful outcome of the command "Select MasterFile" the TestSIM shall send SW1/SW2 "9F 1B".

2. For a successful outcome of the command "Get Response with Length 1B" on the MasterFile the TestSIM shall respond:

RFU:	'00 00'
Not allocated memory:	'653 bytes'
File ID:	Master File
Type of file:	MF
RFU:	00 00 22 FF 01'
Length of following data:	14 bytes'
File characteristics:	
Clock Stop:	Not allowed
Min. frequency for GSM algorithm:	13/8 MHz
Technology identification:	3V Technology SIM
CHV1:	disabled
DFs in current directory:	2
EFs in current directory:	8
Number of CHV and admin. Codes:	3
RFU byte 18:	00
CHV1 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV1 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
CHV2 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV2 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
RFU bytes 23:	00

Reserved for admin. management: 00 83 00 FF
Status Words
SW1 / SW2: Normal ending of command

Coding:

BER-TLV:	00	00	02	8D	3F	00	01	00	00	22	FF	01
	0E	9B	02	08	03	00	83	8A	83	8A	00	00
	83	00	FF	90	00							

1. For a successful outcome of the command "Select GSM" the TestSIM shall send SW1/SW2 "9F 1B".

2. For a successful outcome of the command "Select PLMN" the TestSIM shall send SW1/SW2 "9F 0F".

3. EF$_{PLMN}$ Information:

RFU-Bytes 1-2: 00 00
File size: 102 bytes
File ID: 6F30
Type of File: Elementary file
Byte 8
RFU: 00
Access Condition:
UPDATE: CHV1
READ/SEEK: CHV1
RFU-bits 4-1: 1111
INCREASE: NEVER
INVALIDATE: NEVER
REHABILITATE: NEVER
File Status:
Invalidation status: File not invalidated
Readable/updateable: Not readable/updatable when invalidated
RFU-bits 8-4, 2: 0000 0
Length of following data: 2 bytes
Structure: Transparent
Length of record: 00

The initial coding of the EF$_{PLMN}$ shall be FF FF ... FF (logically: Empty).

Annex B (normative):
Details of terminal profile support

Table E.1: TERMINAL PROFILE support

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
1	1.1	Profile Download	3GPP TS 31.111 §5.2	R99	M		PD_Pro_Dvnl
2	1.2	SMS-PP data download	3GPP TS 31.111 §5.2	R99	M		PD_SMS_PP
3	1.3	Cell Broadcast data download	3GPP TS 31.111 §5.2	R99	M		PD_CB
4	1.4	Menu selection	3GPP TS 31.111 §5.2	R99	M		PD_Menu_sel
5	1.5	Bit =1 if SMS-PP data Download supported	3GPP TS 31.111 §5.2	R99	M		PD_SMS_PP
6	1.6	Timer expiration	3GPP TS 31.111 §5.	R99	M		PD_TExpir
7	1.7	Bit=1 if Call control supported	3GPP TS 31.111 §5.2.	R99	M		PD_CC
8	1.8	Bit=1 if Call control supported	3GPP TS 31.111 §5.2	R99	M		PD_CC
9	2.1	Command result	3GPP TS 31.111 §5.2	R99	M		PD_Cmd_Res
10	2.2	Call Control by USIM	3GPP TS 31.111 §5.2	R99	M		PD_CC
11	2.3	Bit=1 if Call control supported	3GPP TS 31.111 §5.2	R99	M		PD_CC
12	2.4	MO short message control by USIM	3GPP TS 31.111 §5.2	R99	M		PD_MO_SMS_CC
13	2.5	Bit=1 if Call control supported	3GPP TS 31.111 §5.2	R99	M		PD_CC
14	2.6	UCS2 Entry supported	3GPP TS 31.111 §5.2	R99	C203		PD_UCS2_entry
15	2.7	UCS2 Display supported	3GPP TS 31.111 §5.2	R99	C203		PD_UCS2_Display
16	2.8	Bit=1 if Display Text supported	3GPP TS 31.111 §5.2	R99	M		PD_Display_Text
17	3.1	DISPLAY TEXT	3GPP TS 31.111 §5.2	R99	M		PD_Display_Text
18	3.2	GET INKEY	3GPP TS 31.111 §5.2	R99	M		PD_Get_Inkey
19	3.3	GET INPUT	3GPP TS 31.111 §5.2	R99	M		PD_Get_Input
20	3.4	MORE TIME	3GPP TS 31.111 §5.2	R99	M		PD_More_Time
21	3.5	PLAY TONE	3GPP TS 31.111 §5.23GPP TS 11. 14, 5	R99	M		PD_Play_Tone
22	3.6	POLL INTERVAL	3GPP TS 31.111 §5.23GPP TS 11. 14, 5	R99	M		PD_Poll_interval
23	3.7	POLLING OFF	3GPP TS 31.111 §5.2	R99	M		PD_Polling_Off
24	3.8	REFRESH	3GPP TS 31.111 §5.2	R99	M		PD_Refresh
25	4.1	SELECT ITEM	3GPP TS 31.111 §5.2	R99	M		PD_Select_Item
26	4.2	SEND SHORT MESSAGE	3GPP TS 31.111 §5.2	R99	M		PD_Send_SMS
27	4.3	SEND SS	3GPP TS 31.111 §5.2	R99	M		PD_Send_SS

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
28	4.4	SEND USSD	3GPP TS 31.111 §5.2	R99	M		PD_Send_USSD
29	4.5	SET UP CALL	3GPP TS 31.111 §5.2	R99	M		PD_SetUp_Call
30	4.6	SET UP MENU	3GPP TS 31.111 §5.2	R99	M		PD_SetUp_Menu
31	4.7	PROVIDE LOCAL INFORMATION (LOCI & IMEI)	3GPP TS 31.111 §5.2	R99	M		PD_Provide_Local

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
32	4.8	PROVIDE LOCAL INFORMATION (NMR)	3GPP TS 31.111 §5.2	R99	M		PD_Provide_Local_NMR
33	5.1	SET UP EVENT LIST	3GPP TS 31.111 §5.2	R99	M		PD_Setup_Evt_List
34	5.2	Event: MT call	3GPP TS 31.111 §5.2	R99	M		PD_MT_Call
35	5.3	Event: Call connected	3GPP TS 31.111 §5.2	R99	M		PD_Call_Conn
36	5.4	Event: Call disconnected	3GPP TS 31.111 §5.2	R99	M		PD_Call_Disc
37	5.5	Event: Location status	3GPP TS 31.111 §5.2	R99	M		PD_Loc_Status
38	5.6	Event: User activity	3GPP TS 31.111 §5.2	R99	M		PD_User_Act
39	5.7	Event: Idle screen available	3GPP TS 31.111 §5.2	R99	M		PD_Idle_Scr_Avail
40	5.8	Event: Card reader status	3GPP TS 31.111 §5.2	R99	C206		PD_Evt_Rdr_Status
41	6.1	Event: Language selection	3GPP TS 31.111 §5.2	R99	M		PD_Lang_Select
42	6.2	Event: Browser Termination	3GPP TS 31.111 §5.2	R99	C212		PD_Browser_Term
43	6.3	Event: Data available	3GPP TS 31.111 §5.2	R99	C223		PD_Data_Avail
44	6.4	Event: Channel status	3GPP TS 31.111 §5.2	R99	C223		PD_Evt_Ch_Status
45	6.5	Event:Access Technology Change	3GPP TS 31.111 §5.2	Rel-4	M		PD_Evt_ATC
46	6.6	Event: Display Parameters Changed	3GPP TS 31.111 §5.2	Rel-4	C218		PD_Disp_Resiz
47	6.7	Event: Local Connexion	3GPP TS 31.111 §5.2	Rel-4	M		PD_Evt_LC
48	6.8	Event: Network Search Mode Change	3GPP TS 31.111 §5.2	Rel-6	M		PD_Evt_NSMC
49	7.1	POWER ON CARD	3GPP TS 31.111 §5.2	R99	C206		PD_C_On
50	7.2	POWER OFF CARD	3GPP TS 31.111 §5.2	R99	C206		PD_C_Off
51	7.3	PERFORM CARD APDU	3GPP TS 31.111 §5.2	R99	C206		PD_C_APDU
52	7.4	GET READER STATUS (Card reader status)	3GPP TS 31.111 §5.2	R99	C206		PD_Get_Rdr_Status
53	7.5	GET READER STATUS (Card reader identifier)	3GPP TS 31.111 §5.2	R99	C208		PD_Get_Rdr_Id
54	7.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_54
55	7.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_55
56	7.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_56
57	8.1	TIMER MANAGEMENT (start, stop)	3GPP TS 31.111 §5.2	R99	M		PD_Timer_Mgt_Start_Stop
58	8.2	TIMER MANAGEMENT (get current value)	3GPP TS 31.111 §5.2	R99	M		PD_Timer_Val
59	8.3	PROVIDE LOCAL INFORMATION (date, time and time zone)	3GPP TS 31.111 §5.2	R99	M		PD_Provide_Local_D_Time
60	8.4	Bit=1 if Get Inkey	3GPP TS 31.111 §5.2	R99	M		PD_Get_Inkey
61	8.5	SET UP IDLE MODE TEXT	3GPP TS 31.111 §5.2	R99	M		PD_Stup_Id_Mod_Txt
62	8.6	RUN AT COMMAND (i.e. class "b" is supported)	3GPP TS 31.111 §5.2	R99	C209		PD_Run_AT
63	8.7	Bit=1 if Set UpCall	3GPP TS 31.111 §5.2	R99	M		PD_SetUp_Call

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
64	8.8	Bit=1 if Call Control	3GPP TS 31.111 §5.2	R99	M		PD_CC
65	9.1	Bit=1 if Display Text	3GPP TS 31.111 §5.2	R99	M		PD_Display_Text
66	9.2	SEND DTMF command	3GPP TS 31.111 §5.2	R99	M		PD_Send_DTMF
67	9.3	Bit = 1 if Provide Local Information (NMR) supported	3GPP TS 31.111 §5.2	R99	M		PD_Provide_Local
68	9.4	PROVIDE LOCAL INFORMATION (language)	3GPP TS 31.111 §5.2	R99	M		PD_Provide_Local_LS
69	9.5	PROVIDE LOCAL INFORMATION (Timing Advance)	3GPP TS 31.111 §5.2	R99	M		PD_Provide_Local_TA
70	9.6	LANGUAGE NOTIFICATION	3GPP TS 31.111 §5.2	R99	M		PD_Lang_Notif
71	9.7	LAUNCH BROWSER	3GPP TS 31.111 §5.2	R99	C212		PD_Launch_Brws
72	9.8	PROVIDE LOCAL INFORMATION (Access Technology)	3GPP TS 31.111 §5.2	Rel-4	M		PD_Provide_Local_AT
73	10.1	Soft keys support for SELECT ITEM	3GPP TS 31.111 §5.2	R99	C213		PD_Softkey_Select_Item
74	10.2	Soft Keys support for SET UP MENU	3GPP TS 31.111 §5.2	R99R99	C213		PD_Softkey_SetUp_Menu
75	10.3	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_75
76	10.4	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_76
77	10.5	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_77
78	10.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_78
79	10.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_79
80	10.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_80
81	11.1	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
82	11.2	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
83	11.3	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
84	11.4	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
85	11.5	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
86	11.6	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
87	11.7	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
88	11.8	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
89	12.1	OPEN CHANNEL	3GPP TS 31.111 §5.2	R99	C223		PD_Open_Ch
90	12.2	CLOSE CHANNEL	3GPP TS 31.111 §5.2	R99	C223		PD_Close_Ch
91	12.3	RECEIVE DATA	3GPP TS 31.111 §5.2	R99	C223		PD_Rx_Data
92	12.4	SEND DATA	3GPP TS 31.111 §5.2	R99	C223		PD_Send_Data
93	12.5	GET CHANNEL STATUS	3GPP TS 31.111 §5.2	R99	C223		PD_Get_Ch_Status
94	12.6	SERVICE SEARCH	3GPP TS 31.111 §5.2	Rel-4	C224		PD_Serv_Search

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
95	12.7	GET SERVICE INFORMATION	3GPP TS 31.111 §5.2	Rel-4	C224		PD_Get_Serv_Info
96	12.8	DECLARE SERVICE	3GPP TS 31.111 §5.2	Rel-4	C224		PD_Declare_Serv
97	13.1	CSD supported by ME	3GPP TS 31.111 §5.2	R99	C207		PD_CSD
98	13.2	GPRS supported by ME	3GPP TS 31.111 §5.2	R99	C222		PD_GPRS
99	13.3	Bluetooth supported by terminal	3GPP TS 31.111 §5.2	Rel-4	C225		PD_BT
100	13.4	IrDA Supported by terminal	3GPP TS 31.111 §5.2	Rel-4	C226		PD_IrDA
101	13.5	RS232 Supported by terminal	3GPP TS 31.111 §5.2	Rel-4	C227		PD_RS232
102	13.6	Number of channels supported by ME	3GPP TS 31.111 §5.2	R99	C223		PD_Nb_Channel

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
103	13.7	Number of channels supported by ME	3GPP TS 31.111 §5.2	R99	C223		PD_Nb_Channel
104	13.8	Number of channels supported by ME	3GPP TS 31.111 §5.2	R99	C223		PD_Nb_Channel
105	14.1	Number of characters supported down the ME	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char
106	14.2	Number of characters supported down the ME	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char
107	14.3	Number of characters supported down the ME	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char
108	14.4	Number of characters supported down the ME	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char
109	14.5	Number of characters supported down the ME	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char
110	14.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_110
111	14.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_111
112	14.8	Screen Sizing Parameters	3GPP TS 31.111 §5.2	R99	C216		PD_Screen_Siz
113	15.1	Number of characters supported across the ME display	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char_Disp
114	15.2	Number of characters supported across the ME display	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char_Disp
115	15.3	Number of characters supported across the ME display	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char_Disp
116	15.4	Number of characters supported across the ME display	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char_Disp
117	15.5	Number of characters supported across the ME display	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char_Disp
118	15.6	Number of characters supported across the ME display	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char_Disp
119	15.7	Number of characters supported across the ME display	3GPP TS 31.111 §5.2	R99	C217		PD_Nb_Char_Disp
120	15.8	Variable size fonts Supported	3GPP TS 31.111 §5.2	R99	C217		PD_Var_Font
121	16.1	Display can be resized	3GPP TS 31.111 §5.2	R99	C218		PD_Disp_Resiz
122	16.2	Text Wrapping supported	3GPP TS 31.111 §5.2	R99	C218		PD_Txt_Wrap
123	16.3	Text Scrolling supported	3GPP TS 31.111 §5.2	R99	C218		PD_Txt_Scroll
124	16.4	Text attributes supported	3GPP TS 31.111 §5.2	Rel-5	C228		PD_Text_Attrib
125	16.5	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_125
126	16.6	Width reduction when in a menu	3GPP TS 31.111 §5.2	R99	C217		PD_Width_Reduc
127	16.7	Width reduction when in a menu	3GPP TS 31.111 §5.2	R99	C217		PD_Width_Reduc
128	16®8	Width reduction when in a menu	3GPP TS 31.111 §5.2	R99	C217		PD_Width_Reduc
129	17.1	TCP	3GPP TS 31.111 §5.2	R99	C220		PD_TCP
130	17.2	UDP	3GPP TS 31.111 §5.2	R99	C221		PD_UDP
131	17.3	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_131

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
132	17.4	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_132
133	17.5	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_133
134	17.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_134
135	17.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_135
136	17.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_136
137	18.1	DISPLAY TEXT (Variable time out)	3GPP TS 31.111 §5.2	Rel-4	C229		
138	18.2	GET INKEY (help is supported while waiting for immediate response or variable time out)	3GPP TS 31.111 §5.2	Rel-4	C231		
139	18.3	USB supported by ME	3GPP TS 31.111 §5.2	Rel-4	C232		
140	18.4	GET INKEY (Variable time out)	3GPP TS 31.111 §5.2	Rel-4	C229		
141	18.5	PROVIDE LOCAL INFORMATION (ESN)	See 3GPP2	R99	X		Reserved
142	18.6	CALL CONTROL on GPRS	3GPP TS 31.111 §5.2	Rel-5	C242		PD_CC_GPRS
143	18.7	PROVIDE LOCAL INFORMATION (IMEISV)	3GPP TS 31.111 §5.2	Rel-6	M		PD_Provide_Local_SV
144	18.8	PROVIDE LOCAL INFORMATION (search mode change)	3GPP TS 31.111 §5.2	Rel-6	M		PD_Provide_Local_SMC
145	19.1	Protocol Version	3GPP TS 31.111 §5.2	R99	X		Reserved
146	19.2	Protocol Version	3GPP TS 31.111 §5.2	R99	X		Reserved
147	19.3	Protocol Version	3GPP TS 31.111 §5.2	R99	X		Reserved
148	19.4	Protocol Version	3GPP TS 31.111 §5.2	R99	X		Reserved
149	19.5	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_149
150	19.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_150
151	19.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_151
152	19.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_152
153	20.1	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
154	20.2	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
155	20.3	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
156	20.4	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
157	20.5	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
158	20.6	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
159	20.7	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
160	20.8	Reserved by TIA/EIA/IS-820 [25]	3GPP TS 31.111 §5.2	R99	X		Reserved
161	21.1	WML browser supported	3GPP TS 31.111 §5.2	Rel-6	C233		PD_WML
162	21.2	XHTML browser supported	3GPP TS 31.111 §5.2	Rel-6	C234		PD_XHTML

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
163	21.3	HTML browser supported	3GPP TS 31.111 §5.2	Rel-6	C235		PD_HTML
164	21.4	CHTML browser supported	3GPP TS 31.111 §5.2	Rel-6	C236		PD_CHTML
165	21.5	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_165_
166	21.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_166
167	21.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_167
168	21.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_168
169	22.1	Support of UTRAN PS with extended parameters	3GPP TS 31.111 §5.2	Rel-6	TBD		PD_Provide_Local_PS
170	22.2	PROVIDE LOCAL INFORMATION (Battery state) if class 'g' supported	3GPP TS 31.111 §5.2	Rel-6	C239		PD_Provide_Local_Batt
171	22.3	PLAY TONE (Melody tones & themed tones supported)	3GPP TS 31.111 §5.2	Rel-6	C241		PD_Tones
172	22.4	Multi-media in SET UP CALL supported (if class 'h' supported)	3GPP TS 31.111 §5.2	Rel-6	C240		PD_Xmedia_Call
173	22.5	MMS Management (class 'j' supported)	3GPP TS 31.111 §5.2	Rel-6	C238		PD_MMS
174	22.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_174
175	22.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_175
176	22.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_176
177	23.1	SET FRAMES supported (if class 'i' supported)	3GPP TS 31.111 §5.2	Rel-6	C237		PD_Set_Frames
178	23.2	GET FRAMES STATUS supported (if class 'i' supported)	3GPP TS 31.111 §5.2	Rel-6	C237		PD_Get_Frames_Stat
179	23.3	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_179
180	23.4	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_180
181	23.5	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_181
182	23.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_182
183	23.7	PROVIDE LOCAL INFORMATION (UTRAN NMR)	3GPP TS 31.111 §5.2	Rel-6	M		PD_Provide_Local_NMR
184	23.8	USSD Data Download and application mode	3GPP TS 31.111 §5.2	Rel-6	M		PD_USSD_DD
185	24.1	Maximum number of frames supported (if class 'i' supported)	3GPP TS 31.111 §5.2	Rel-6	C237		PD_Max_Frames
186	24.2	Maximum number of frames supported (if class 'i' supported)	3GPP TS 31.111 §5.2	Rel-6	C237		PD_Max_Frames
187	24.3	Maximum number of frames supported (if class 'i' supported)	3GPP TS 31.111 §5.2	Rel-6	C237		PD_Max_Frames
188	24.4	Maximum number of frames supported (if class 'i' supported)	3GPP TS 31.111 §5.2	Rel-6	C237		PD_Max_Frames
189	24.5	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_189
190	24.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_190

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
191	24.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_191
192	24.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_192
193	25.1	Event: browsing status	3GPP TS 31.111 §5.2	Rel-6	M		PD_Browser_Stat
194	25.2	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_194
195	25.3	Event Frame parameters changed (if class 'i' supported)	3GPP TS 31.111 §5.2	Rel-6	C237		PD_Event_Frames
196	25.4	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_196
197	25.5	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_197
198	25.6	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_198
199	25.7	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_199
200	25.8	RFU	3GPP TS 31.111 §5.2	R99	X		PD_RFU_200
201	26.1	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_201
202	26.2	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_202
203	26.3	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_203
204	26.4	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_204
205	26.5	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_205
206	26.6	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_206
207	26.7	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_207
208	26.8	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_208
209	27.1	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_209
210	27.2	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_210
211	27.3	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_211
212	27.4	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_212
213	27.5	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_213
214	27.6	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_214
215	27.7	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_215
216	27.8	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_216
217	28.1	Alignment left supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Left
218	28.2	Alignment center supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Center
219	28.3	Alignment right supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Right
220	28.4	Font size normal supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Normal
221	28.5	Font size large supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Large
222	28.6	Font size small supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Small

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
223	28.7	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_223
224	28.8	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_224
225	29.1	Style normal supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Styl_Norm
226	29.2	Style bold supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Styl_Bold
227	29.3	Style italic supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Styl_Italic
228	29.4	Style underlined supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Styl_Underl
229	29.5	Style strikethrough supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Styl_Strik
230	29.6	Style text foreground colour supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Styl_Text_Fore
231	29.7	Style text background colour supported	3GPP TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Styl_Text_Back
232	29.8	RFU	3GPP TS 31.111 §5.2	Rel-6	X		PD_RFU_224

C201	[void]	-- [void]
C202	[void]	-- [void]
C203	IF A.1/3 THEN M	-- O_Ucs2_Entry
C204	IF A.1/15 THEN M	-- O_Ucs2_Disp
C205	[void]	-- [void]
C206	IF A.1/7 THEN M	-- O_Dual_Slot
C207	IF A.1/12 THEN M	-- O_BIP_CSD
C208	IF (A.1/7 AND A.1/8) THEN M	-- O_Dual_Slot AND O_Detach_Rdr
C209	IF A.1/9 THEN M	-- O_Run_At
C210	[void]	-- [void]
C211	[void]	-- [void]
C212	IF A.1/10 THEN M	-- O_LB
C213	IF A.1/11 THEN M	-- O_Softkey
C214	IF C213 THEN bit values "0" / "1" allowed	-- O_Softkey (parameters)
C215	Void	-- Void
C216	IF A.1/13 THEN M	-- O_Scr_Siz
C217	IF C216 THEN bit values "0" / "1" allowed	-- O_Scr_Siz (parameters)
C218	IF A.1/14 THEN M	-- O_Scr_Resiz
C219	IF C218 THEN bit values "0" / "1" allowed	-- O_Scr_Resiz (parameters)
C220	IF A.1/18 THEN M	-- O_TCP
C221	IF A.1/17 THEN M	-- O_UDP
C222	IF A.1/21 THEN M	-- O_BIP_GPRS
C223	IF (C207 OR C222) THEN M	-- O_BIP
C224	IF (C223 AND A1.26) THEN M	-- O_BIP AND O_BIP_Local
C225	IF (C224 AND A1.27) THEN M	-- O_BIP_BT
C226	IF (C224 AND A1.28) THEN M	-- O_BIP_IrDA
C227	IF (C224 AND A1.29) THEN M	-- O_BIP_RS232
C228	IF A1.25 THEN M	-- O_Text_Attrib
C229	IF A1.24 THEN M	-- O_Duration
C230	IF A1.23 THEN M	-- O_Imm_Resp
C231	IF (C229 OR C230) AND A1.5 THEN M	-- O_Help AND (O_Duration OR
C232	IF A1.30 THEN M	O_Imm_Resp)
C233	IF A1.31 THEN M	-- O_USB
C234	IF A1.32 THEN M	-- O_WML
C235	IF A1.33 THEN M	-- O_XHTML
C236	IF A1.34 THEN M	-- O_HTML
C237	IF A1.37 THEN M	-- O_CHTML
C238	IF A1.38 THEN M	-- O_Frames
C239	IF A1.35 THEN M	-- O_MMS
C240	IF A1.36 THEN M	-- O_Batt
C241	IF A1.29 THEN M	-- O_Xmedia Call
C242	IF A1.16 THEN M	-- O_Tones
C243	IF C228 THEN bit values "0" / "1" allowed	-- O_CC_GPRS
		-- O_Text_Attrib (parameters)

ETSI

Annex C (informative): Change history

CR	REV	CP-doc	Meeting	SUBJECT	CAT	NEW_VERS
		TP-050016	2.0.0	Approved TP-27, March 2005		6.0.0
001		CP-050144	CP-28	Correction of coding in MT Call Event	F	6.1.0
002		CP-050144	CP-28	Correction of applicability table	F	6.1.0
003		CP-050144	CP-28	Essential Corrections	F	6.1.0
004		CP-050144	CP-28	Correction of coding in MT Call Event	F	6.1.0
005		CP-050144	CP-28	Removal of GET RESPONSE references	F	6.1.0
006		CP-050447	CP-29	Rel-6: Correction of release dependent EF values	F	6.2.0
007				Correction of applicability and terminal profile support tables	F	
008				Correction of EF_BDN coding	F	
009				Incorrect Dialling Number string in clause 27.22.4.13.1 SEQ 1.9 for PCS 1900	F	
010				Essential corrections in display icons Setup Menu and Select Item	f	
011				Incorrect Ti Flag value for SET UP 1.4.1 in clause 27.22.4.16.1	F	
012				Correction of TP-MR (TP Message Reference) of the SMS SUBMIT TPDU submitted to the USS (Network)	F	
013				Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11	F	
014				Incorrect DCS in SMS-CB data download tests	F	
015				Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY USIM	F	
016				Introduction of BDN tests for terminals not supporting BDN	B	
017				Essential Corrections	F	
018				Incorrect SMS-PP 1.4.1 TPDU in clause 27.22.4.22.1	F	
019				Missing interactions in Bearer Independent Protocol test cases	F	
020				Correction of Refresh tests	F	
022				Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN	F	
023				Essential correction to Terminal Profile table E.1	F	
024				Correction of CB message identifier	F	
025				Rel-6: Addition of new UCS2 Tests	B	
027				Incorrect Coding of SMS-PP (Data download) Message in clause 27.22.4.7.1 and 27.22.5.1	F	
				2005-10: Editorial corrections due to the CRs approved at CP-29		6.2.1

History

Document history		
V6.0.0	March 2005	Publication
V6.1.0	June 2005	Publication
V6.2.1	October 2005	Publication